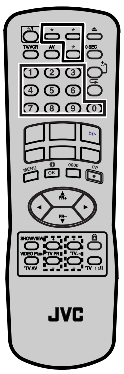
JVC

SERVICE MANUAL

VIDEO CASSETTE RECORDER

HR-J282EU, HR-J283EU, HR-J285EU, HR-J290EU, HR-J293EU, HR-J295EK, HR-J295MS, HR-J582EU, HR-J583EU, HR-J585EU, HR-J590EU, HR-J593EU, HR-J595EK, HR-J595MS





SHOWVIEW®
VHS PAL
Hi-Fi

SPECIFICATIONS *(The specifications shown pertain specifically to the model HR-J290EU, J293EU, J590EU and J593EU.)*

GENERAL	
Power	: 200 V – 240 V∿, 50 Hz/60 Hz
Power consumption	
Power on	: Approx. 12 W
Standby mode	: 3.0 W
Video Head system	
HR-J590/J593/J599EU	: DA4 (Double Azimuth) head helical scan system
HR-J290/J293EU	: Rotary two-head helical scan system
Tape speed	
(SP)	: 23.39 mm/sec
(LP)*	: 11.69 mm/sec
HR-J590/J593/J599EU only	
Tape format	: Tape width 1/2" (12.7 mm high density VHS tape)
Maximum recording time	
(SP)	: 240 min. with E-240 video cassette
(LP)*	: 480 min. with E-240 video cassette
HR-J590/J593/J599EU only	
Rewind time	: Approx. 180 sec. with E-180 cassette
Dimensions (W x H x D)	: 360 mm x 94.5 mm x 270 mm
Weight	: 4.0 kg
Operating temperature	: 5°C to 35°C
Operating humidity	: Less than 80 %
Timer	: 24 hours display type

VIDEO	
Signal system	: PAL-type colour signal and CCIR monochrome signal, 625 lines 50 fields
Recording Format	: PAL/MESECAM
RF reception	: PAL (B/G)/SECAM (B/G)
RF OUT	: PAL G
RF modulator	: UHF channels 22 – 68 (Adjustable)
Input level	: VIDEO IN (SCART type) 1.0 Vp-p, 75 ohm, unbalanced
Output level	: VIDEO OUT (SCART type) 1.0 Vp-p, 75 ohm, unbalanced
Signal-to-noise ratio	: More than 43 dBm

AUDIO	
Input level	: AUDIO IN (SCART type) –6.0 dBm, more than 10 kΩ
Output level	
HR-J590/J593/J599EU	: AUDIO OUT (SCART, RCA type) –6.0 dBm, less than 1 kΩ
HR-J290/J293EU	: AUDIO OUT (SCART type) –6.0 dBm, less than 1 kΩ
Audio track	
HR-J590/J593/J599EU	: Mono track and Hi-Fi track
HR-J290/J293EU	: Mono track
Audio frequency response	
Normal audio	: 100 Hz to 10,000 Hz (–6/+3 dBm)
Hi-Fi audio*	: 20 Hz to 20,000 Hz (–3/+3 dBm)
HR-J590/J593/J599EU only	
Audio signal to noise ratio [HR-J590/J593/J599EU only]	
Hi-Fi audio	: More than 70 dB (JIS A filter)
Audio dynamic range [HR-J590/J593/J599EU only]	
Hi-Fi audio	: More than 85 dB (JIS A filter)

ACCESSORIES	
Provided accessories	: RF cable, Infrared remote control unit, "R3" battery x 2

Specifications shown are for SP mode unless specified otherwise. E. & O.E. Design and specifications subject to change without notice.

V15

No.82915
June 2002

TABLE OF CONTENTS

SECTION 1
SUMMARY

SECTION 2
CABINET & MAIN CHASSIS

SECTION 3
ELECTRICAL

SECTION 4
MECHANISM

NOTE) The table of contents for this section is edited separately.

SECTION 5
REPLACEMENT PARTS LIST

SECTION1 SUMMARY
KEY TO ABBREVIATIONS

A	AC	:Alternating Current
	ACC	:Automatic Color Control
	ACSS	:Automatic Channel Setting System
	ADJ	:Adjust
	A/E	:Audio Erase
	AFC	:Automatic Frequency Control
	AFT	:Automatic Fine Tuning
	AGC	:Automatic Gain Control
	A.H.SW	:Audio Head Switch
	ALC	:Automatic Level Control
	AM	:Amplitude Modulation
	AMP	:Amplifier
	ANT	:Antenna
	APC	:Automatic Phase Control
	ASS'Y	:Assembly
	AUX	:Auxiliary
B	B	:Base
	BGP	:Burst Gate Pulse
	BPF	:Bandpass Filter
	BS	:Brodcasting Satellite
	BW or B/W	:Black and White
C	C	:Capacitor, Chroma, Collector
	CAN	:Cancel
	CAP	:Capstan
	CAP.BRK	:Capstan Brake
	CAP.RVS	:Capstan Reverse
	CATV	:Cable Television
	CBA	:Circuit Board Assembly
	CCD	:Charge Coupled Device
	C.CTL	:Chro Control, Capstan Control
	CFG	:Capstan Frequency Generator
	CHROMA	:Chrominance
	CNR	:Chroma Noise Redution
	COMB	:Combination
		Comb Filter
	COMP	:Comparator
		Composite
		Compensation
	CONV	:Converter
	C.ROT SW	:Color Rotary Switch
	CS	:Chip Selcet
	C.SYNC	:Composite Synchronization
	CTL DIV	:Control Divide
	CUR	:Current
	CYL	:Cylinder
D	D	:Drum, Digital, Diode, Drain
	D.ADJ	:Drum Adjust
	DC	:Direct Current
	D.CTL	:Drum Control
	DEMOD	:Demodulator
	DET	:Detector
	DEV	:Deviation
	DHP	:Double High Pass
	DIGITRON	:Digital Display Tube
	DL	:Delay line
	DOC	:Drop Out Compensator
	DUB	:Dubbing
	D.V SYNC	:Dummy Vertical Synchronization
E	E	:Emitter
	EE	:Electric to Eletric
	EMPH	:Emphasis
	ENA	:Enable
	ENV	:Envelope
	EP	:Extended Play
	EQ	:Equalizer
	EXP	:Expander
F	F	:Fuse
	FB	:Feed Back
	FBC	:Feed Back Clamp
	FE	:Full Erase
	FG	:Frequency Generator
	FL	:Filter
	FM	:Frequency Modulation
	F/R	:Front/Rear
	FS	:Frequency Synthesizer
	FSC	:Subcarrier Frequency
	F/V	:Frequency Voltage
G	GEN	:Generator
H	H	:High, Horizontal
I	IC	:Integrated Circuit
	IF	:Intermediate Frequency
	INS	:Insert
L	L	:Low, Left, Coil
	LD	:LED
	LD VTG CTL	:Loading Voltage Control
	LECHA	:Letter Character
	L.M	:Level Meter
	LP	:Long Play
	LPF	:Low Pass Filter
M	MAX	:Maximum
	MD	:Modulator
	MECHA.CTL	:Mechanism Control
	MIC	:Microphone
	MIN	:Minimum
	MIX	:Mixer, Mixing
	M.M.	:Monostable, Multivibrator
	MMV	:Mono Multi Vibrator
	MOD	:Modulation, Modulator
	MODEM	:Modulator-Demodulator
	MPX	:Multiplex
N	NR	:Noise Reduction
O	OSC	:Oscillator
	OSD	:On Screen Display
P	PB	:Playback
	PCB	:Printed Circuit Board
	P.CTL	:Power Control
	PRE-AMP	:Preamplifier
	P.F	:Power Failure
	PG	:Pulse Generator
	PLL	:Phase Locked Loop
	PREM.DET	:Premire Detect
	P.P	:Peak-to-Peak
	PS	:Phase Shift
	PWM	:Pulse Width Modulation
	PWR CTL	:Power Control
Q	Q	:Transistor
	QH	:Quasi Horizontal
	QSR	:Quick Setting Record
	QTR	:Quick Timer Record
	QV	:Quasi Vertical
R	R	:Resistor, Right
	RE(or RC)	:Remocon, Receiver
	REC	:Recording
	REC S 'H'	:Record Start 'Hight'
	REF	:Reference
	REG	:Regulated, Regulator
	REMOCON	:Remote Control(unit)
	RF	:Radio Frequency
	R/P	:Record/Playback
	RTC	:Reel Time Counter
S	S	:Serial
	S.ACCEL	:Slow Accel
	SAOP	:Second Audio Program
	SC	:Scart, Simulcast
	S.DET	:Secam Detect
	SH	:Shift
	SHARP	:Sharpness
	SIF	:Sound Intermediate Frequency
	SLD	:Side Locking
	S/N	:Signal to Noise Ratio
	SP	:Standard Play
	ST	:Stereo
	SUB	:Subtract, Subcarrier
	SW or S/W	:Switch
	SYNC	:Synchronization
	SYSCON	:System Control
T	T	:Coil
	TP	:Test Point
	TR	:Transistor
	TRK	:Tracking
	TRANS	:Transformer
	TU	:Tuner, Take-up
U	UHF	:Ultra High Frequency
	UNREG	:Unregulated
V	V	:Volt, Vertical
	VA	:Always Voltage
	VCO	:Voltage Controlled Oscillator
	VGC	:Voltage Gain Control
	VHF	:Very High Frequency
	V.H.SW	:Video Head Switch
	VISS	:VHS Index Search
	VPS	:Video Program System
	VR	:Variable Resistor or Volume
	V-SYNC	:Vertical Synchronization
	VTG	:Voltage
	VV	:Voltage to Voltage
	VXO	:Voltage X-tal Oscillator
W	W	:Watt
	WHT	:White
	W/O	:With out
X	X-TAL	:Crystal
Y	Y/C	:Luminance/Chrominance
	YNR	:Luminance Noise Reduction
Z	ZD	:Zener Diode

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

●Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded ( ) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers
   4) Insulation sheets for transistors
   5) Barrier

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

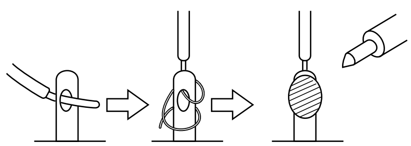


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

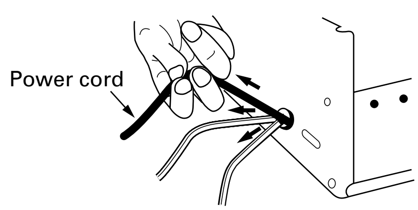


Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) **Connector part number :** E03830-001
    2) **Required tool :** Connector crimping tool of the proper type which will not damage insulated parts.
    3) **Replacement procedure**
       (1) Remove the old connector by cutting the wires at a point close to the connector.
       Important : Do not reuse a connector (discard it).

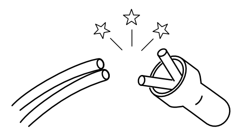


Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

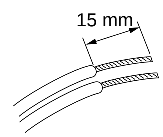


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

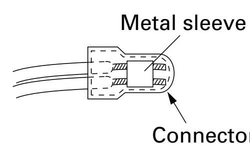


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

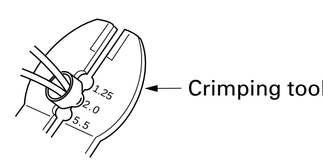


Fig.6

(5) Check the four points noted in Fig.7.

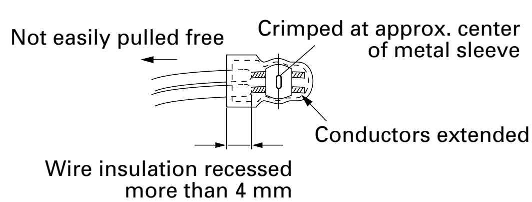


Fig.7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test
Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

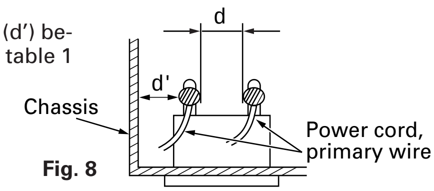


Fig. 8

4. Leakage current test
Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
Measuring Method : (Power ON)
Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

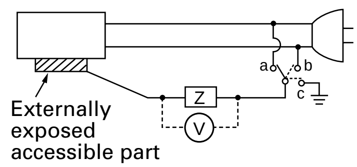


Fig. 9

5. Grounding (Class Ⅰ model only)
Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).
Measuring Method:
Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

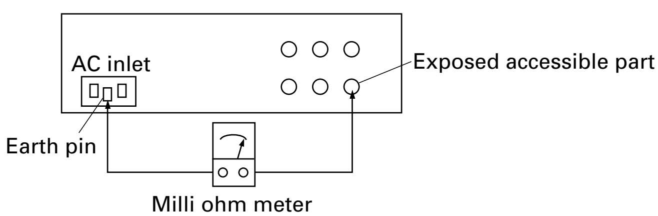


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 miute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	1 MΩ ≦ R ≦ 12 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 µF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

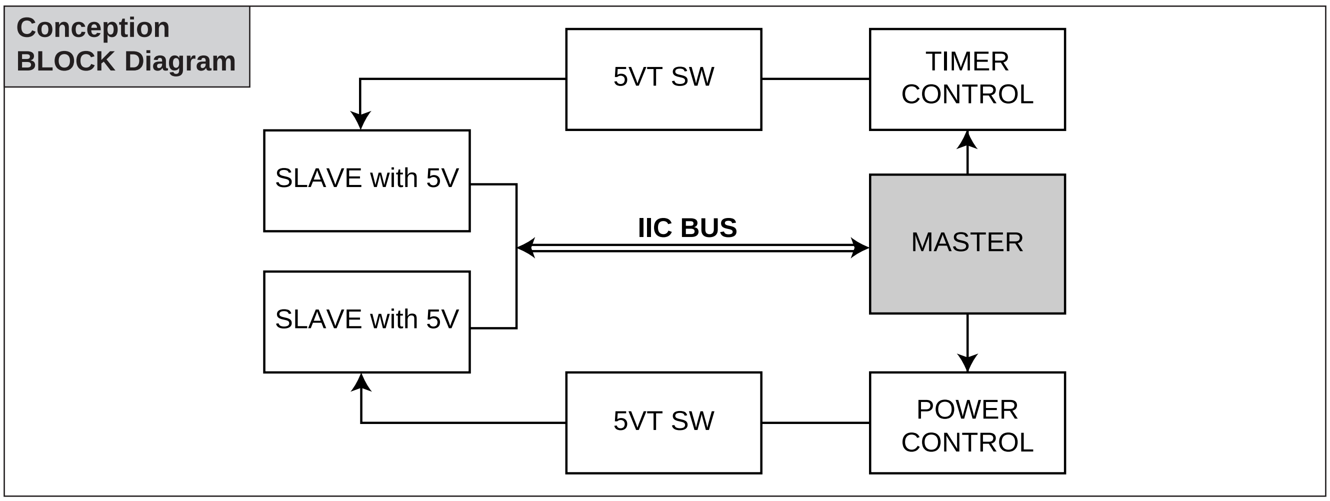
Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

PROPOSAL FOR APPLYING SHORT PROTECTION

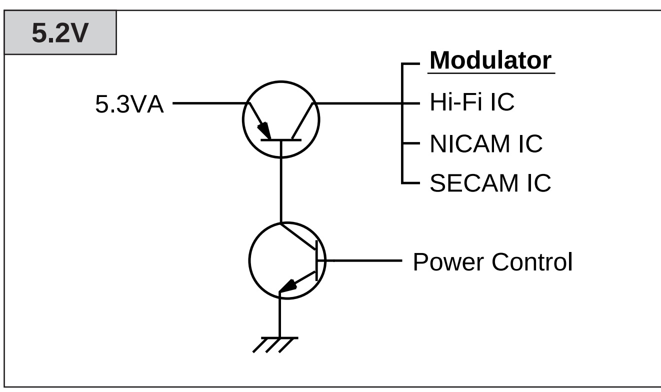
• The Contents of Examination

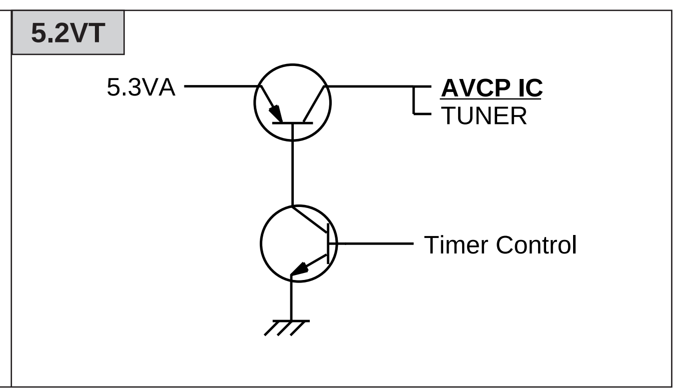
As all the IC that is applied to VCR is controlled by IIC, mutual communication, if Vcc of IC is short or open with detecting 'Acknowledge' data of the specific IC according to each power(5V, 5VT) μ-COM gets unable to detect 'ACK' data.

μ-COM regards this case as abnormal one and if it can't detect 'ACK' data for a certain time(3.5 sec) the signal of 'Power Control' and 'Timer Control' are switched to 'Low'. As a result POWER Switching TR is kept from generating heat and fire.



• POWER for each IC





• IC to detect 'ACK' data is selected as below because IC is different in accordance to region and option

S/ Series	5V POWER	SECAM IC
	5VT POWER	AVCP IC
P/Y/I Series	5V POWER	Modulator
	5VT POWER	AVCP IC

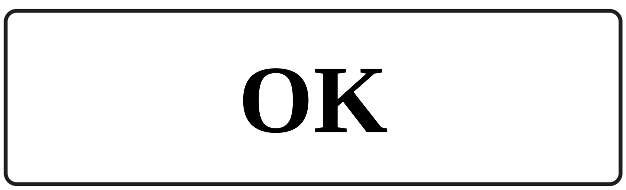
*Short protection off mode : DJ01 Diode in

SERVICE NOTICE ON REPLACING EEPROM

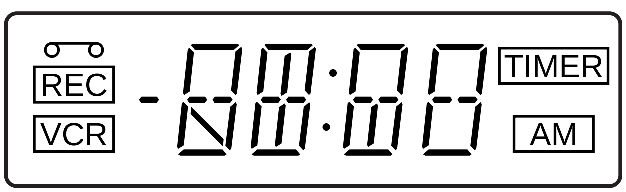
In case that defective EEPROM of PAL models is replaced, to operate these sets from the initial state MP KEY must be repaired as well before delivering to the customer.
If MP KEY isn't repaired the setting of RF OUT channel or LANGUAGE might be different from that for custormer's country.

•**MP KEY** : In case of PAL VCR if holding the REC button on the front panel and the CLEAR button on the remote control handset for 5 ~ 7 seconds with power being switch all and no tapes,
OK is displayed at FLD for FLD models and LED becomes on for LED CLOCK models.
This is the state that initializing EEPROM is finished.
(In case of PAL VCP if holding the REC button on the front panel and the MENU button on the remote control handset for 5 ~ 7 seconds with power being off and no tapes, All the LED DOTs become on. This is the state that initializing EEPROM is finished.)

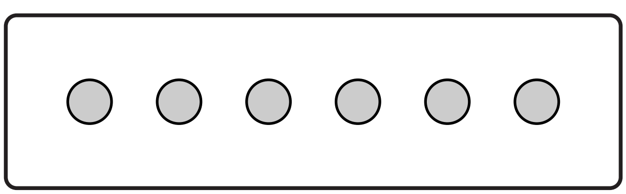
•**MP KEY's function** : MP KEY sets EEPROM's data up to the initial state.



• **FLD MODEL:**
MP KEY "OK"



• **LED CLOCK MODEL:**
MP KEY Switch all on a Light



• **LED DOT MODEL:**
MP KEY Switch all on a Light

SERVICE INFORMATION FOR EEPROM IC SETTING

EEPROM option code No. setting

MODEL	NAME	HEX	BINARY
HR-J285EU	02	00	00000000
	C0	00	00000000
	C0	00	00000000
	B1	00	00000000
	30	00	00000000
	48	00	00000000
HR-J290EU	E2	00	00000000
HR-J293EU	C1	00	00000000
	C8	00	00000000
	B1	00	00000000
	30	00	00000000
	48	00	00000000
HR-J585EU	0C	00	00000000
	C0	00	00000000
	C0	00	00000000
	B1	00	00000000
	30	00	00000000
	48	00	00000000
HR-J590EU/	EC	00	00000000
J593EU	C1	00	00000000
	C8	00	00000000
	B1	00	00000000
	30	00	00000000
	48	00	00000000
HR-J595EK	2C	00	00000000
	C0	00	00000000
	C8	00	00000000
	B4	00	00000000
	00	00	00000000
	43	00	00000000
HR-J595MS	6C	00	00000000
	C0	00	00000000
	48	00	00000000
	B0	00	00000000
	62	00	00000000
	40	00	00000000
HR-J295MS	62	00	00000000
	C0	00	00000000
	48	00	00000000
	B0	00	00000000
	62	00	00000000
	40	00	00000000
HR-J295EK	02	00	00000000
	C0	00	00000000
	C8	00	00000000
	B4	00	00000000
	00	00	00000000
	43	00	00000000
HR-J282EU	02	00	00000000
	C0	00	00000000
	C0	00	00000000
	B7	00	00000000
	00	00	00000000
	50	00	00000000

MODEL	NAME	HEX	BINARY
HR-J283EU	02	00	00000000
	C0	00	00000000
	C8	00	00000000
	B7	00	00000000
	00	00	00000000
	50	00	00000000
HR-J582EU	0C	00	00000000
	C0	00	00000000
	C0	00	00000000
	B7	00	00000000
	00	00	00000000
	50	00	00000000
HR-J583EU	0C	00	00000000
	C0	00	00000000
	C8	00	00000000
	B7	00	00000000
	00	00	00000000
	50	00	00000000

Remote control Key action

- OK : Now option data write to EEPROM
- MENU : Menu exit
- EDIT : ▲▼ (Option data change from 0~F Hexadecimal)
- MOVE : ◀ ▶ (Cursor move for option data setting)

EEPROM option code No. setting procedure

1. Power Cord plug-in and Power SW on, then "EEPROM option data setting" screen to the left will be displayed.

If not, press the "Child lock" key on the Remote controller to switch with "CANAL" because the VCR set has "CANAL IC" inside.

If your VCR set has "NTSC Line Record", switch the VCR set to "AV" mode after inputting the Line Video signal. If not, the Blue back screen may be shown in to screen.

2. Refer to option data in the next page and input the value to the "HEX" field using "EDIT" key only, and then press the "OK" key on the Remote controller.

3. Check the basic operation (Tuner/PB/CUE/REV/AV/REC mode...)

4. Initialize the EEPROM IC pressing the "REC" key on the Front Panel and "CLEAR" key on the Remote controller at the same time.

SPECIFICATIONS

General	
Power	: 200~240V, 50Hz
Power consumption	: Approx. 12 watts(Energy Saving mode : 3 watts)
Video Head system	: Rotary 2heads, helical scanning system (2HD Model) Double azimuth 4 heads, helical scanning system (4HD MONO, 4HD Hi-Fi Model)
Tape speed	: 23.39 mm/sec (SP mode)11.69 mm/sec(LP mode)
Tape format	: Tape width 1/2" (12.7 mm high density VHS tape)
Maximum recording time	: 4 hours in SP mode/8 hours in LP mode (with E-240 tape)
Rewind time	: Approx. 150 sec. (with E-180 tape)
Dimensions (W X H X D)	: 360 x 94.5 x 270 mm
Weight	: 9.0 lbs. (4.0 kg)
Operating temperature	: 41°F-95°F (5°C-35°C)
Operating humidity	: Less than 80%
Timer	: 24 hours display type
Video	
Television system	: CCIR standard (625 lines, 50 fields) PAL colour signal
Recording format	: PAL B/G (HR-J282EU/J283EU/J582EU/J583EU/J285EU/ J290EU/293EU/J585EU/J590EU/J593EU) PAL N (HR-J295EK/J595EK) PAL SECAM-L (HR-J295MS/J595MS)
Input level	: VIDEO IN (SCART, RCA type) 1.0 Vp-p, 75 ohm, unbalanced
Output level	: VIDEO OUT (SCART type) 1.0 Vp-p, 75 ohm, unbalanced
Signal to noise ratio	: More than 43 dBm
Audio	
Input level	: AUDIO IN (SCART type) Scart type : -6.0dBm, more than 10kΩ
Output level	: AUDIO OUT (SCART, RCA type) Scart type : -6.0dBm, less than 1kΩ RCA type : -6.0 dBm, less than 1kΩ
Audio track	Mono track & Hi-Fi track
Audio signal to noise ratio	: Normal : More than 70 dBm(JIS A filter)
Audio dynamic range	: Hi-Fi audio : More than 85 dBm(JIS A filter)

• Design and specifications are subject to change without notice.

:Hi-Fi Model only

SECTION 2 CABINET & MAIN CHASSIS
SERVICE METHOD

Electrical Part

(1) Re-assembly Flow for service like Fig. 2-1

Timer C.B.A

↓

Main C.B.A

↓

Housing & Deck Assembly

↓

(2) To check and replace Electrical parts

① Re-assemble the unit according to No.1) Re-assembly Flow.
② Place the unit like Fig. 2-1
③ Check and replace Electrical parts.

NOTE :

① Insert Video Cassette Tape inversely like Fig. 2-1 to check and replace defective parts.
② In disassembling and reassembling, be careful not to damaged CST switch.

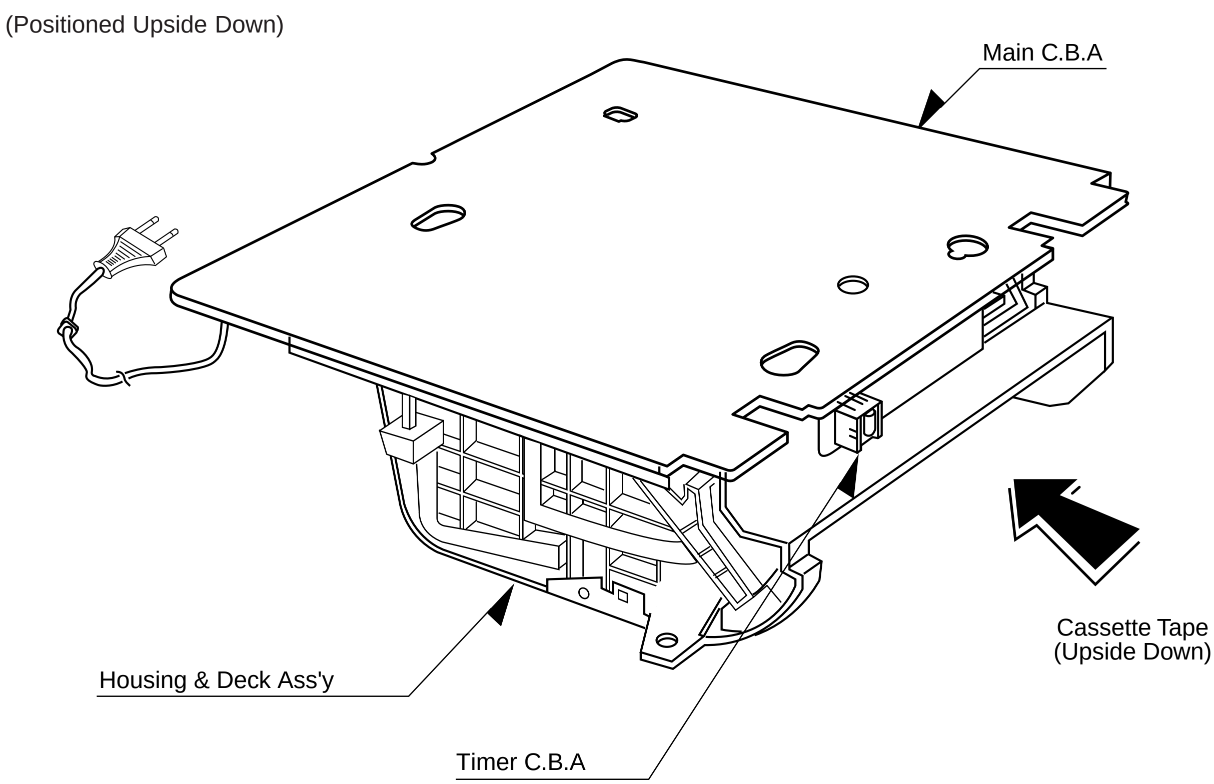
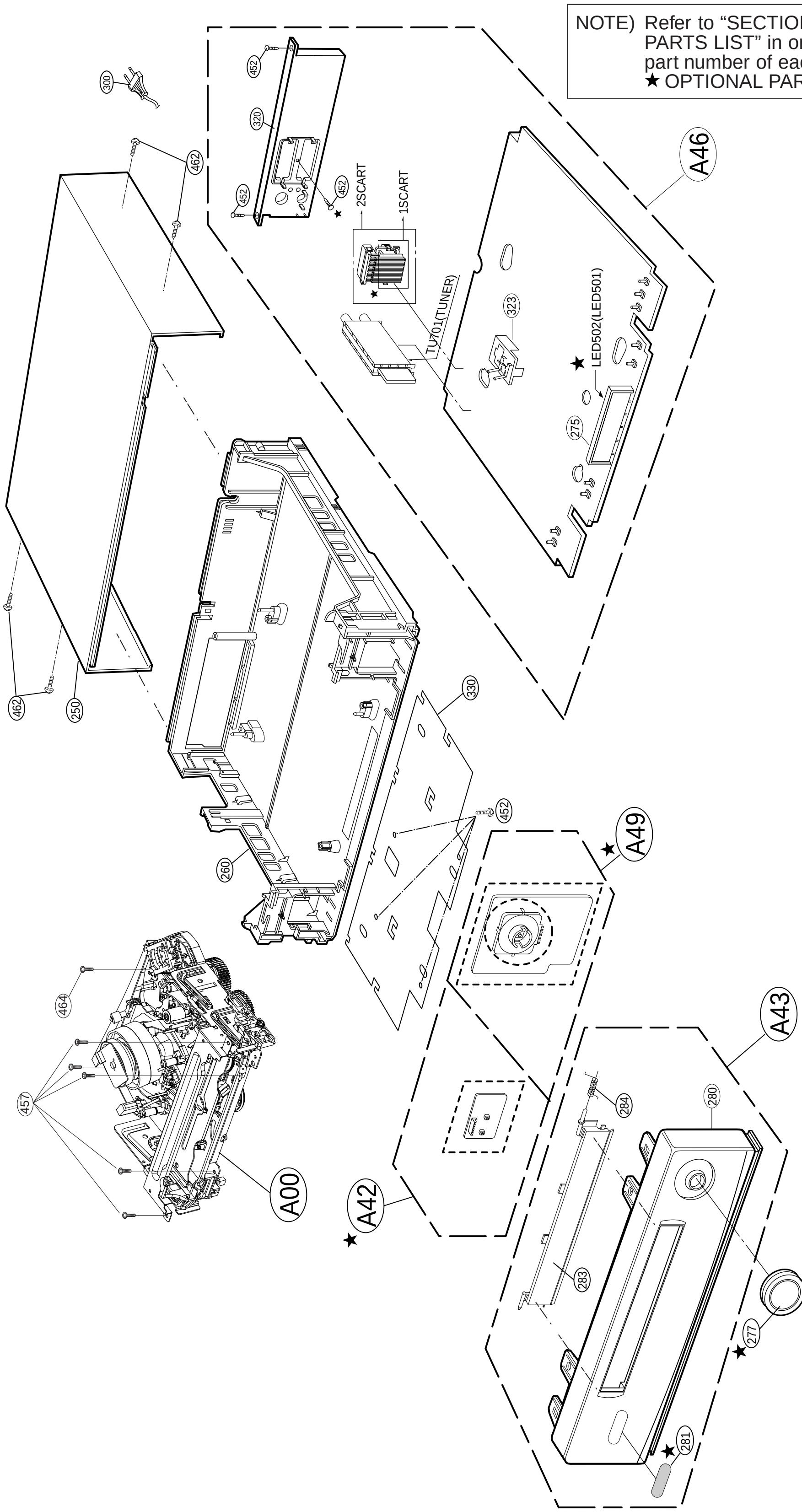


Fig.2-1

EXPLODED VIEWS

1. Cabinet and Main Frame Section

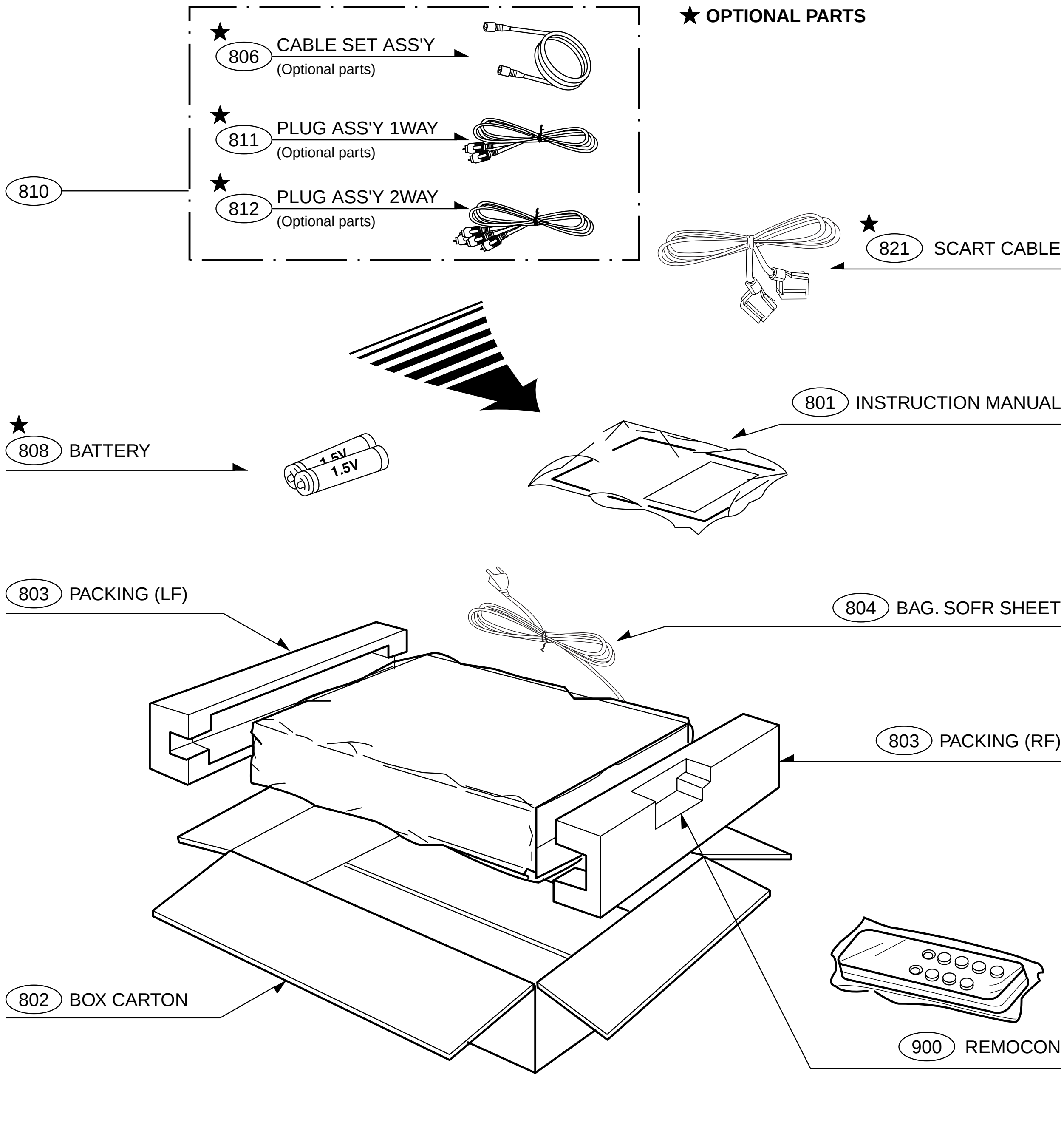
NOTE) Refer to "SECTION 5 REPLACEMENT PARTS LIST" in order to look for the part number of each part.
★ OPTIONAL PARTS



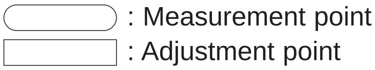
A	B	C	D

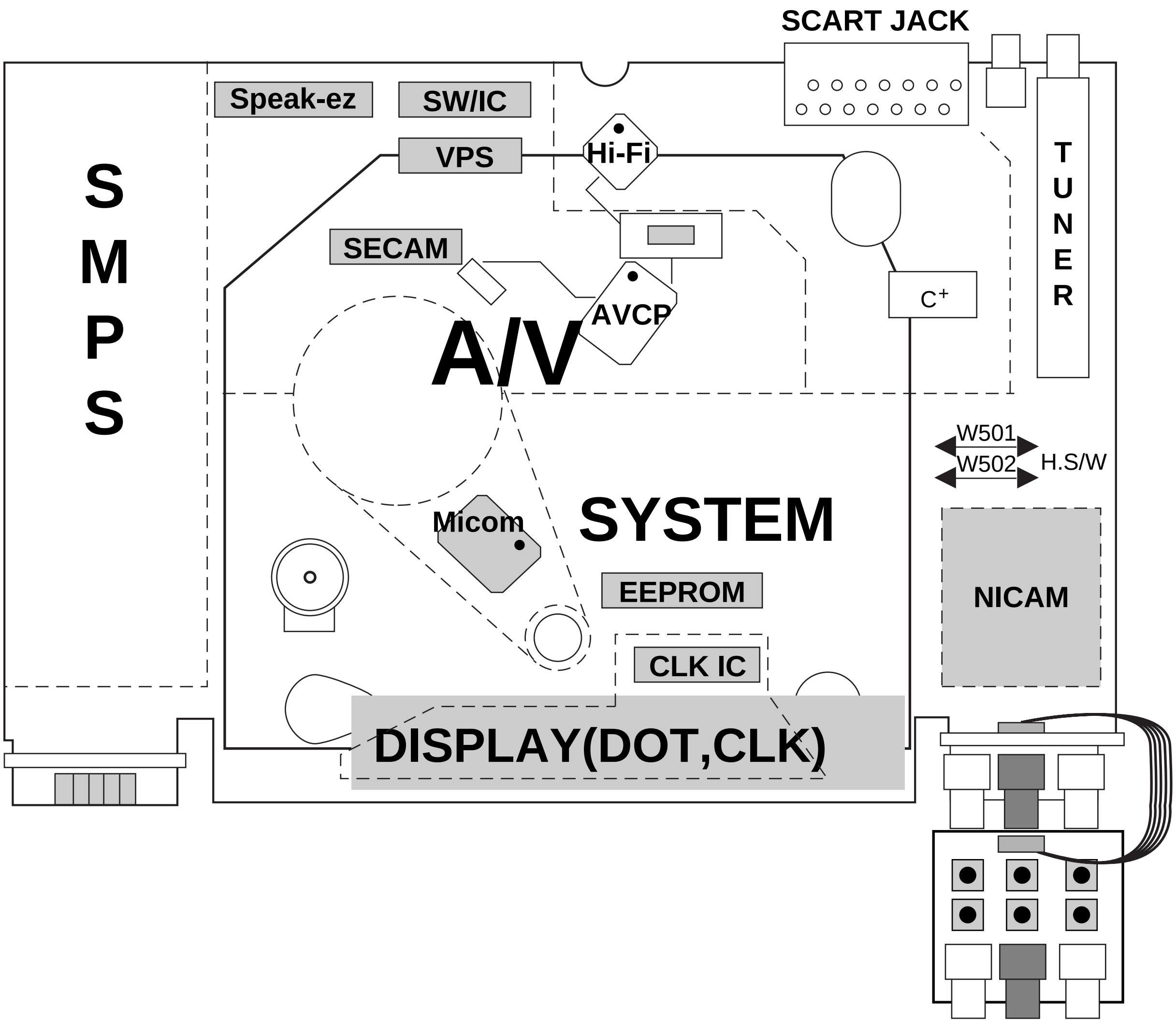
2.Packing Accessory Section

NOTE) Refer to "SECTION REPLACEMENT PARTS LIST in order to look for the part number of each part.



SECTION 3 ELECTRICAL
ELECTRICAL ADJUSTMENT POINTS ARRANGEMENT





(COMPONENT SIDE)

ELECTRICAL ADJUSTMENT PROCEDURES

1. Servo Adjustment

1) PG Adjustment

• Test Equipment

a) OSCILLOSCOPE
b) PAL TEST TAPE (VHS SP)
c) JIG REMOCON (AUTO PG SETTING)

• Adjustment And Specification

MODE	MEASUREMENT POINT	ADJUSTMENT POINT	SPECIFICATION
PLAY	V.Out H/SW(W501, W502)		6.5 ± 0.5H

• **Adjustment Procedure**

a) Insert the PAL SP Test Tape and play.
Note - Adjust the distance of X, pressing the Tracking(+) or Tracking(-) when the “ATR(OSD on monitor)” is blink after PAL SP test Tape is inserted.

b) Press the Auto PG KEY on JIG Remocon(1’st) or Press “Play” key on set and “0” key on Remocon.(Then check the light 4 Dot LED on CLK/LED - TRK is a Initial)

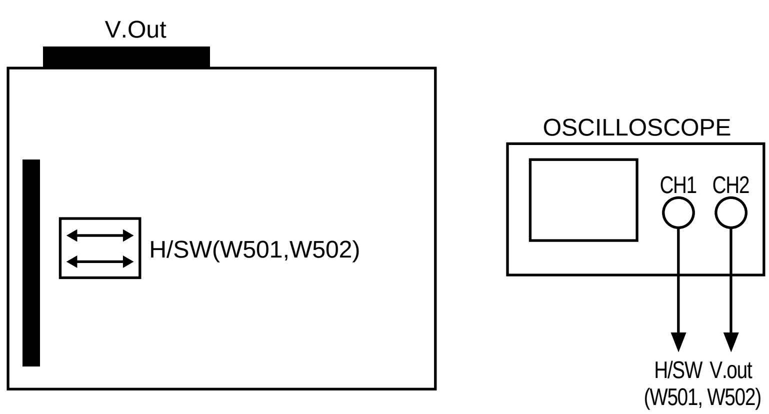
c) Press the Auto PG Key on JIG Remocon again (2’nd) or press “Play” key on set and “0” key on Remocon again.(Then check the blink 4 Dot LED - At regular 0.25sec internal, Then check blink “PG waveform” on oscilloscope(MONO Model)).

• **Check the PG**

a) Connect the CH1 of the oscilloscope to the H/SW and CD2 to the Video out for the VCR.

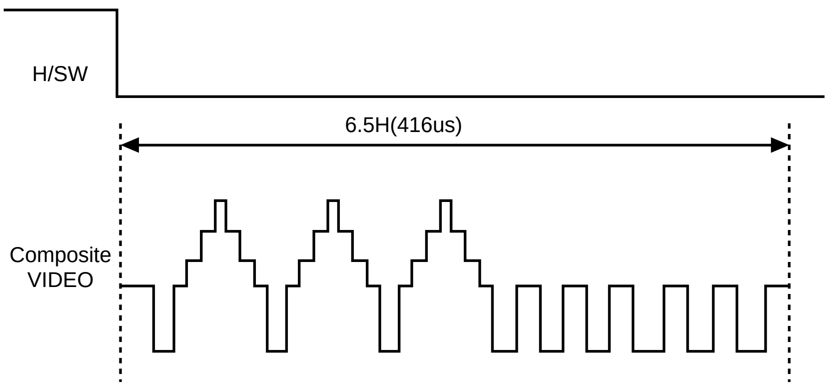
b) Trigger the mixed Video Signal of CH2 to the CH1 H/SW(W501, W502), and then check the distance (time difference), which is from the selected A(B) Head point of the H/SW(W501, W502) signal to the starting point of the vertical synchronized signal, to 6.5H ± 0.5H (416µs, 1H=64.0µs).

• **CONNECTION**



ELECTRICAL ADJUSTMENT PROCEDURES

• **WAVEFORM**



• **Attension and Reference**

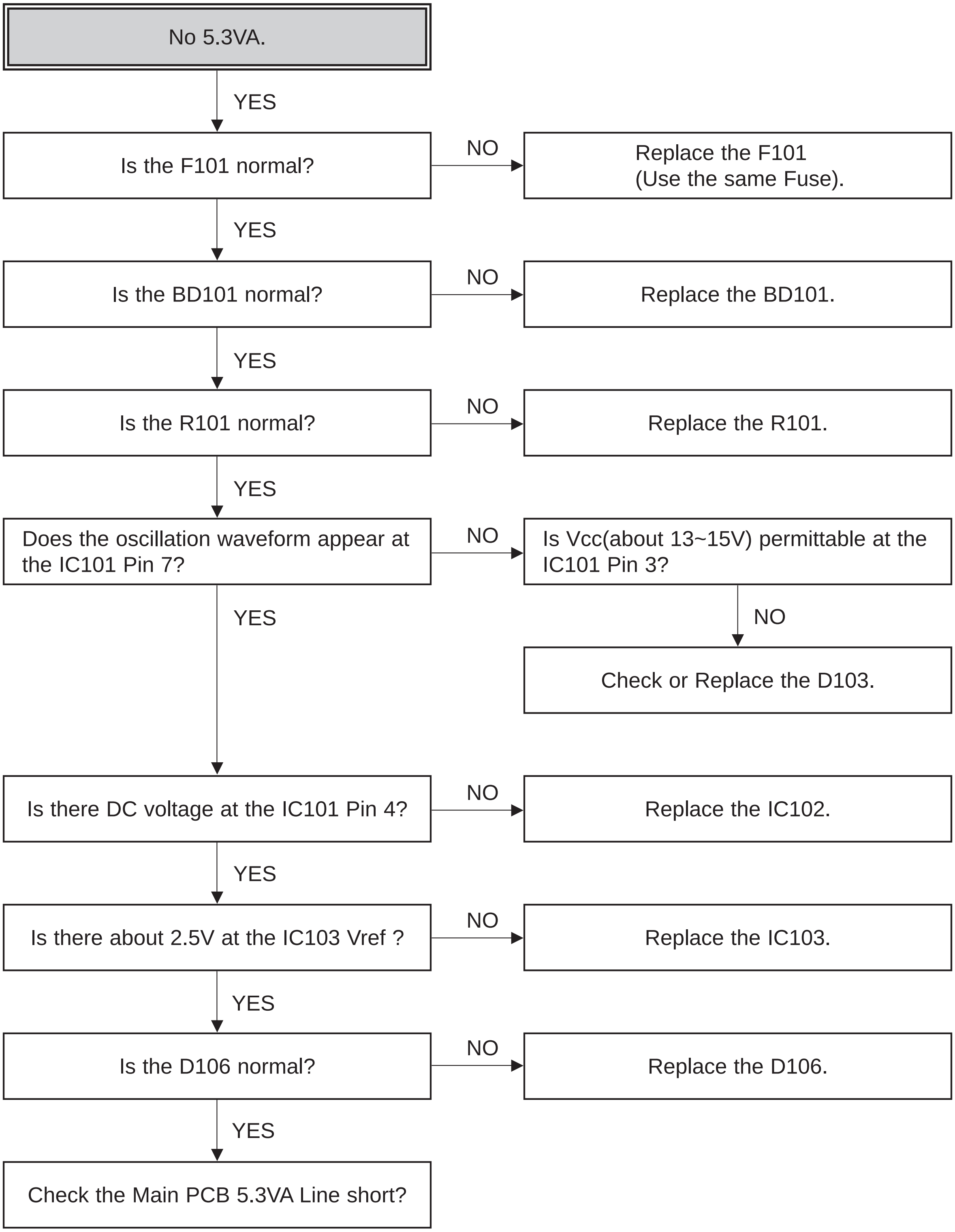
a) The PG checking must do when RF Level is Maximum and SERVO system is Locking (MTR MODE)

b) V.H/SW Level is 2Vpp.

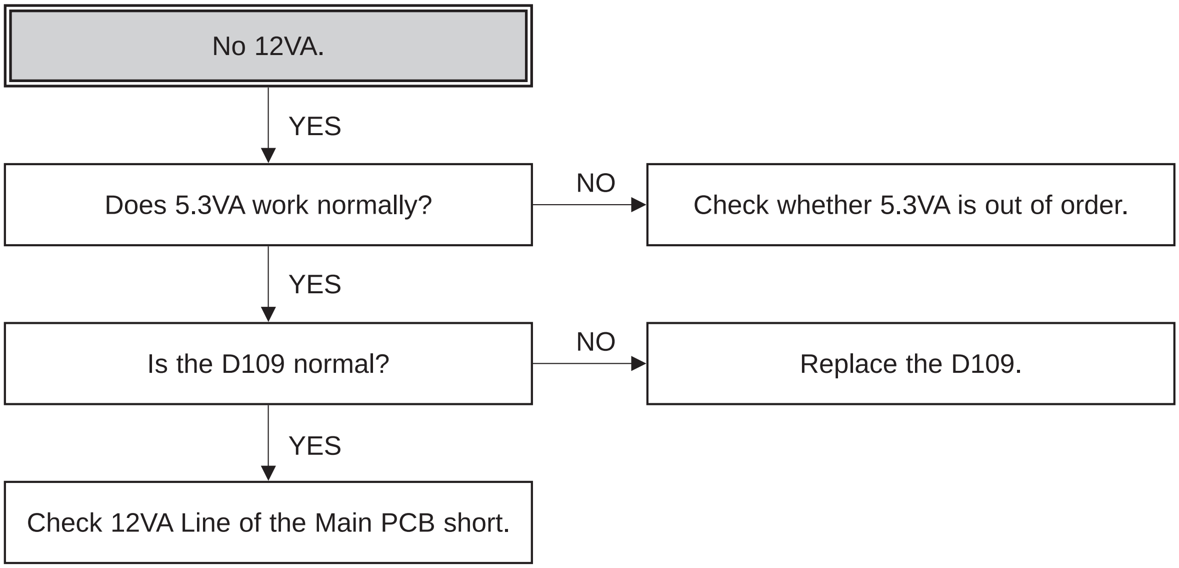
ELECTRICAL TROUBLESHOOTING GUIDE

1. Power Circuit(SMPS)

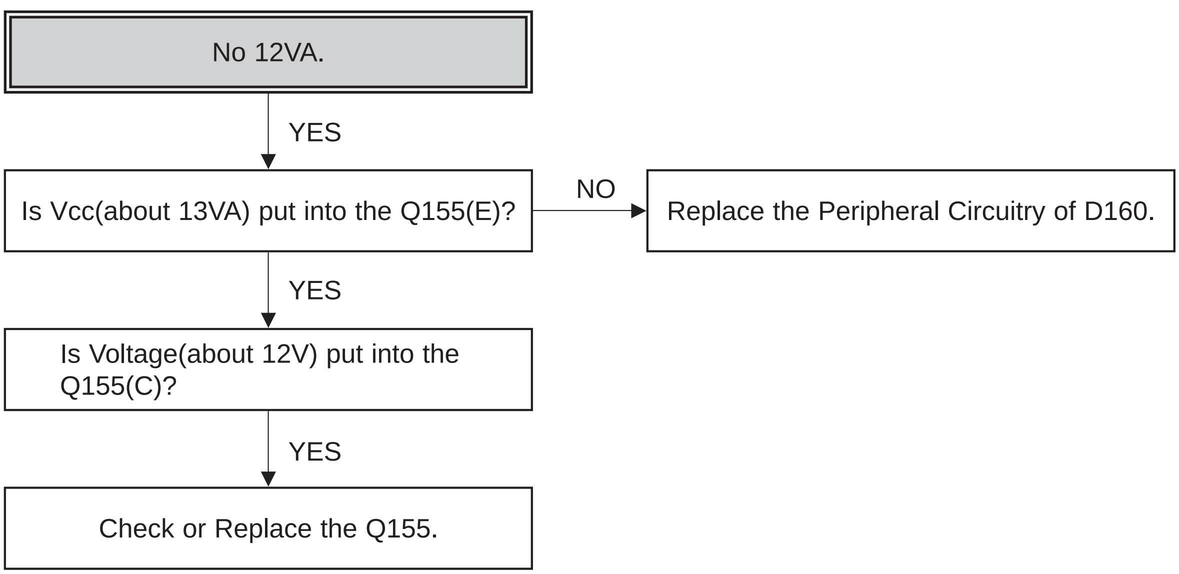
(1) No 5.3VA.



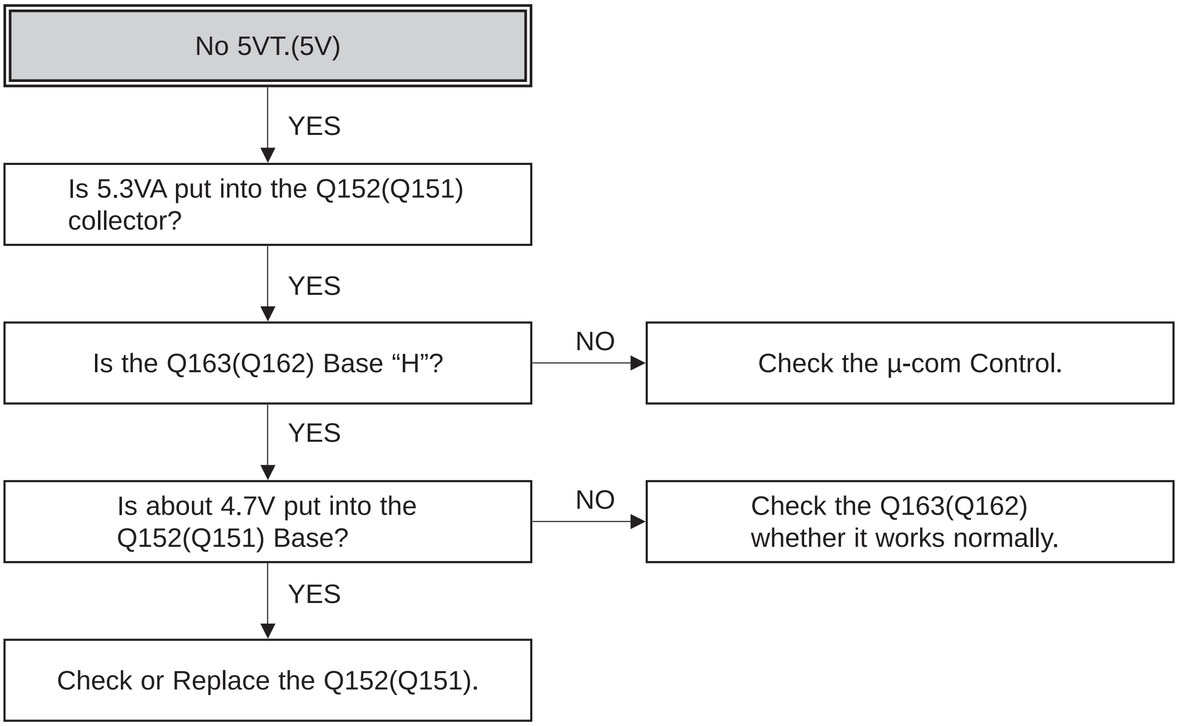
(2) No 12VA.(Capstan)



(3) No 12VA (CANAL, Buffer)

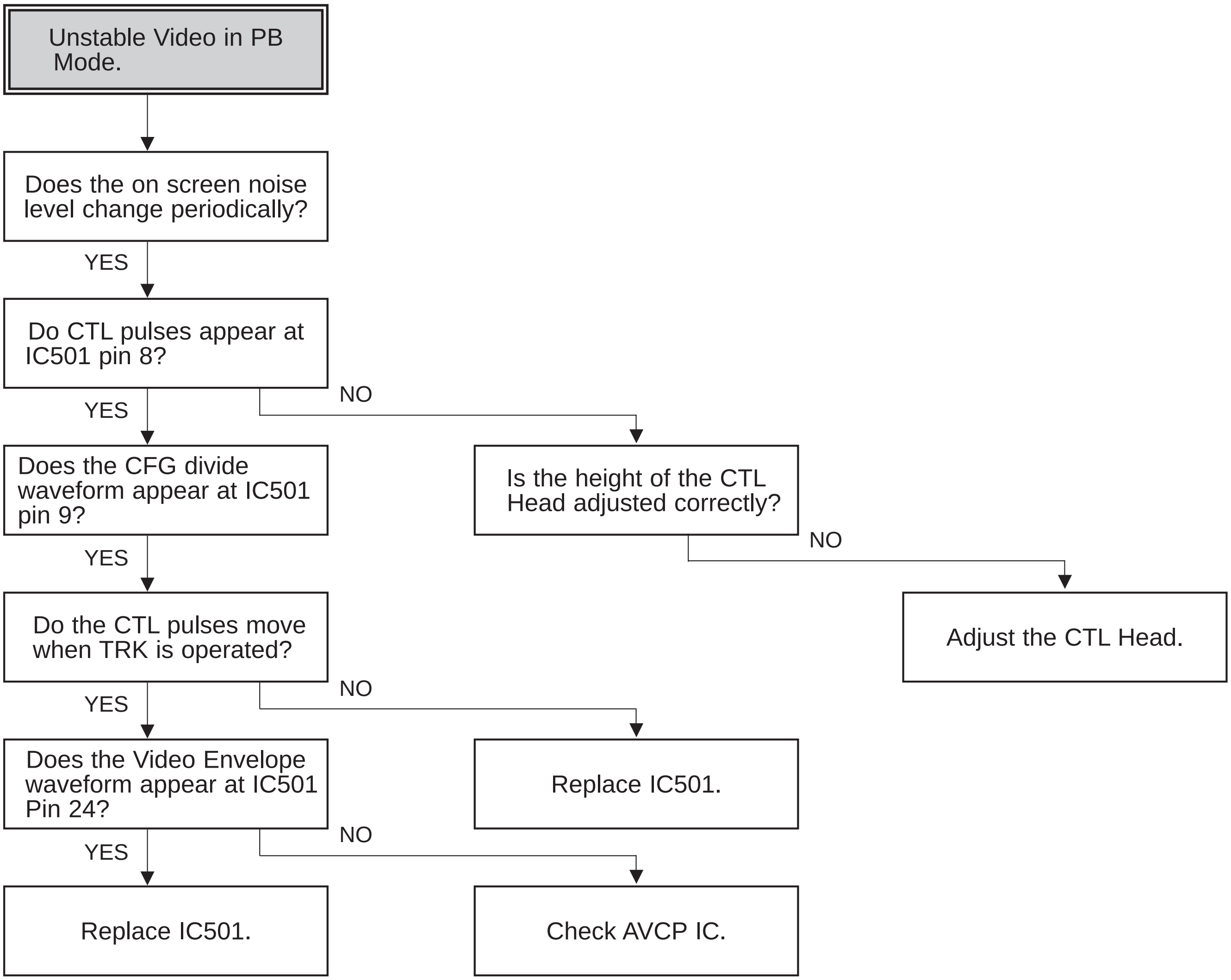


(4) No 5VT(5V)

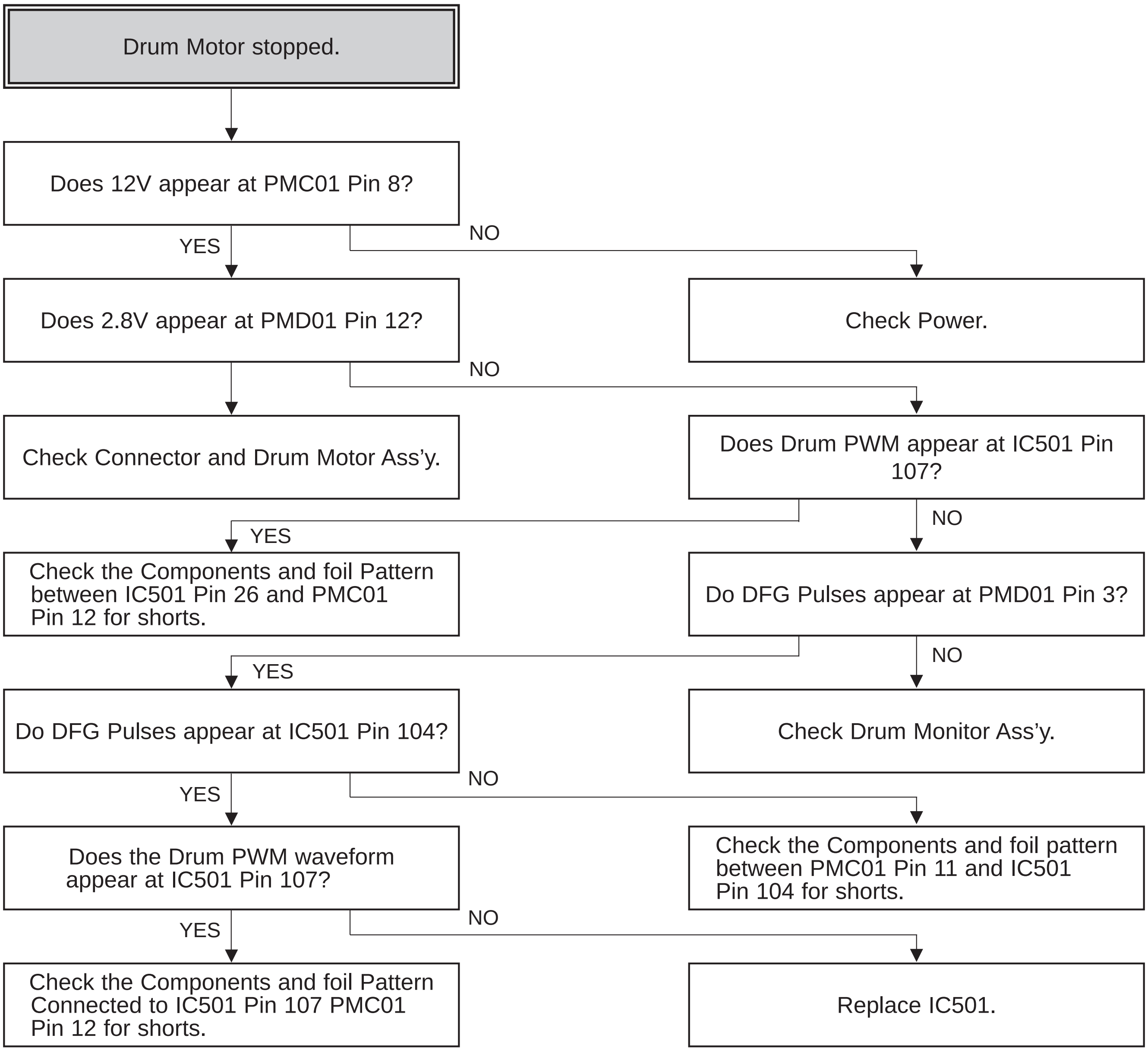

No 5VT.(5V)
YES
Is 5.3VA put into the Q152(Q151) collector?
YES
Is the Q163(Q162) Base “H”?
NO
Check the µ-com Control.
YES
Is about 4.7V put into the Q152(Q151) Base?
NO
Check the Q163(Q162) whether it works normally.
YES
Check or Replace the Q152(Q151).

2. Servo Circuit

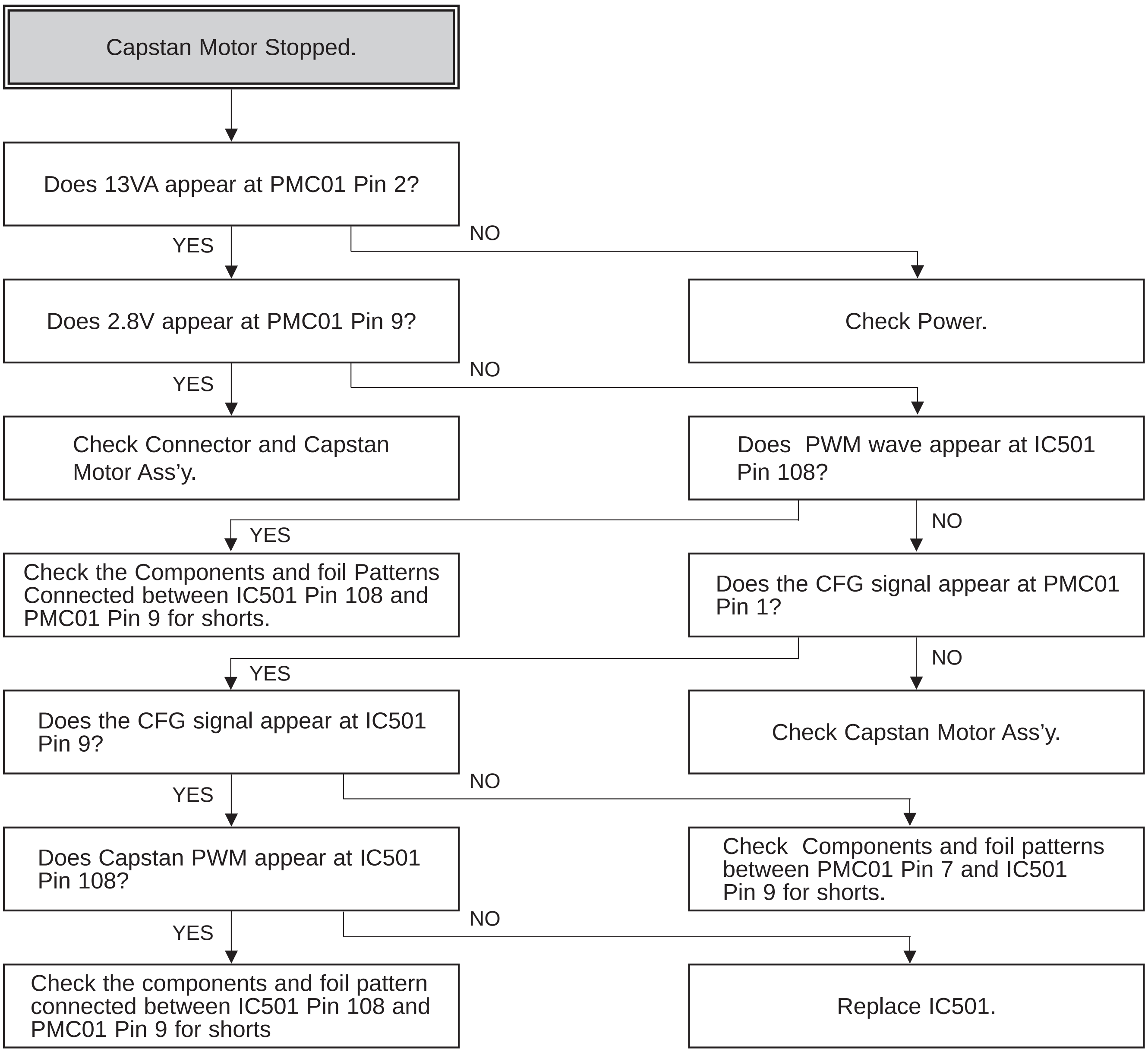
A.



B.

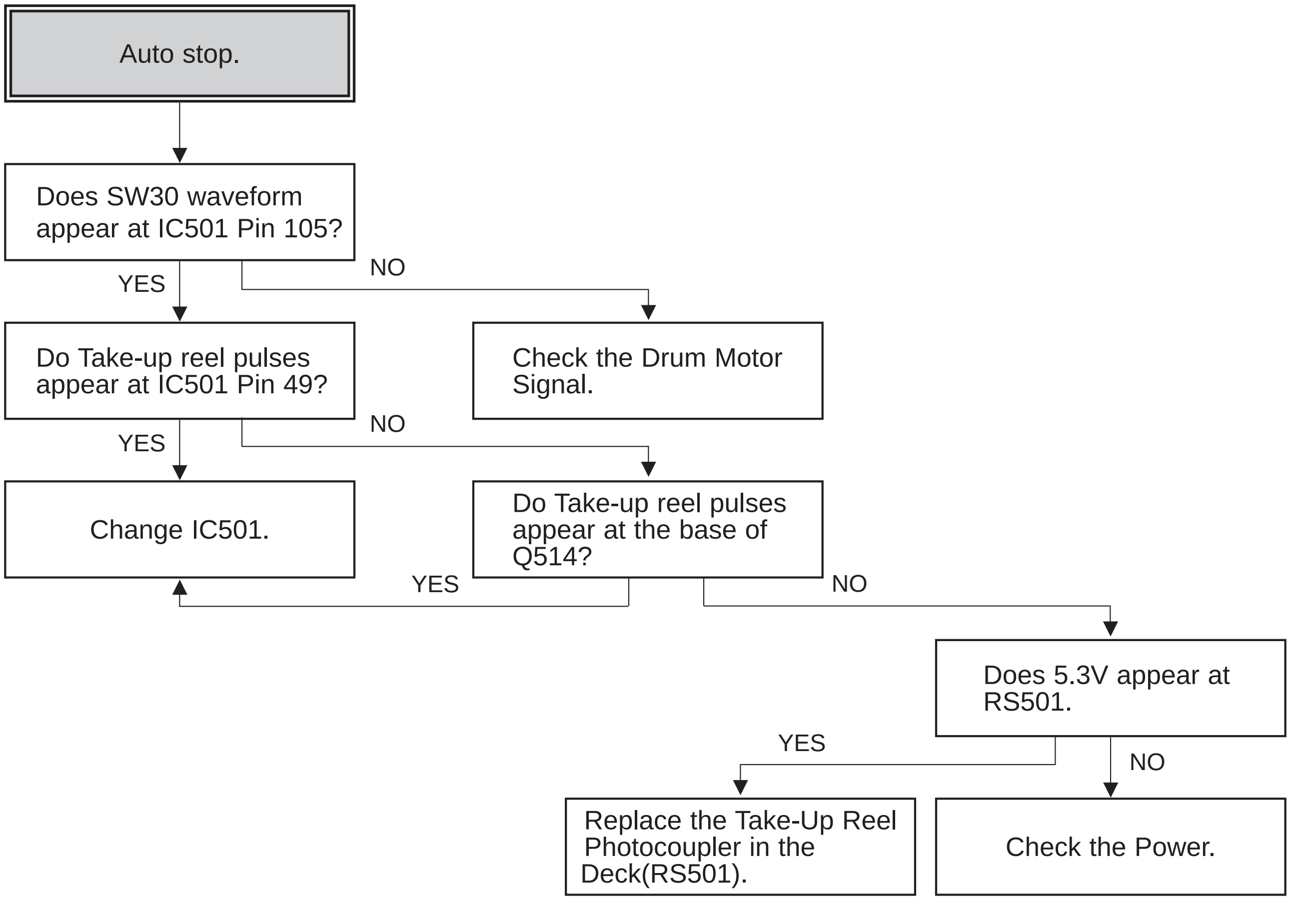

Drum Motor stopped.
Does 12V appear at PMC01 Pin 8?
YES
NO
Does 2.8V appear at PMD01 Pin 12?
Check Power.
NO
Check Connector and Drum Motor Ass'y.
Does Drum PWM appear at IC501 Pin 107?
YES
NO
Check the Components and foil Pattern between IC501 Pin 26 and PMC01 Pin 12 for shorts.
Do DFG Pulses appear at PMD01 Pin 3?
YES
NO
Do DFG Pulses appear at IC501 Pin 104?
Check Drum Monitor Ass'y.
YES
NO
Does the Drum PWM waveform appear at IC501 Pin 107?
Check the Components and foil pattern between PMC01 Pin 11 and IC501 Pin 104 for shorts.
YES
NO
Check the Components and foil Pattern Connected to IC501 Pin 107 PMC01 Pin 12 for shorts.
Replace IC501.

C.

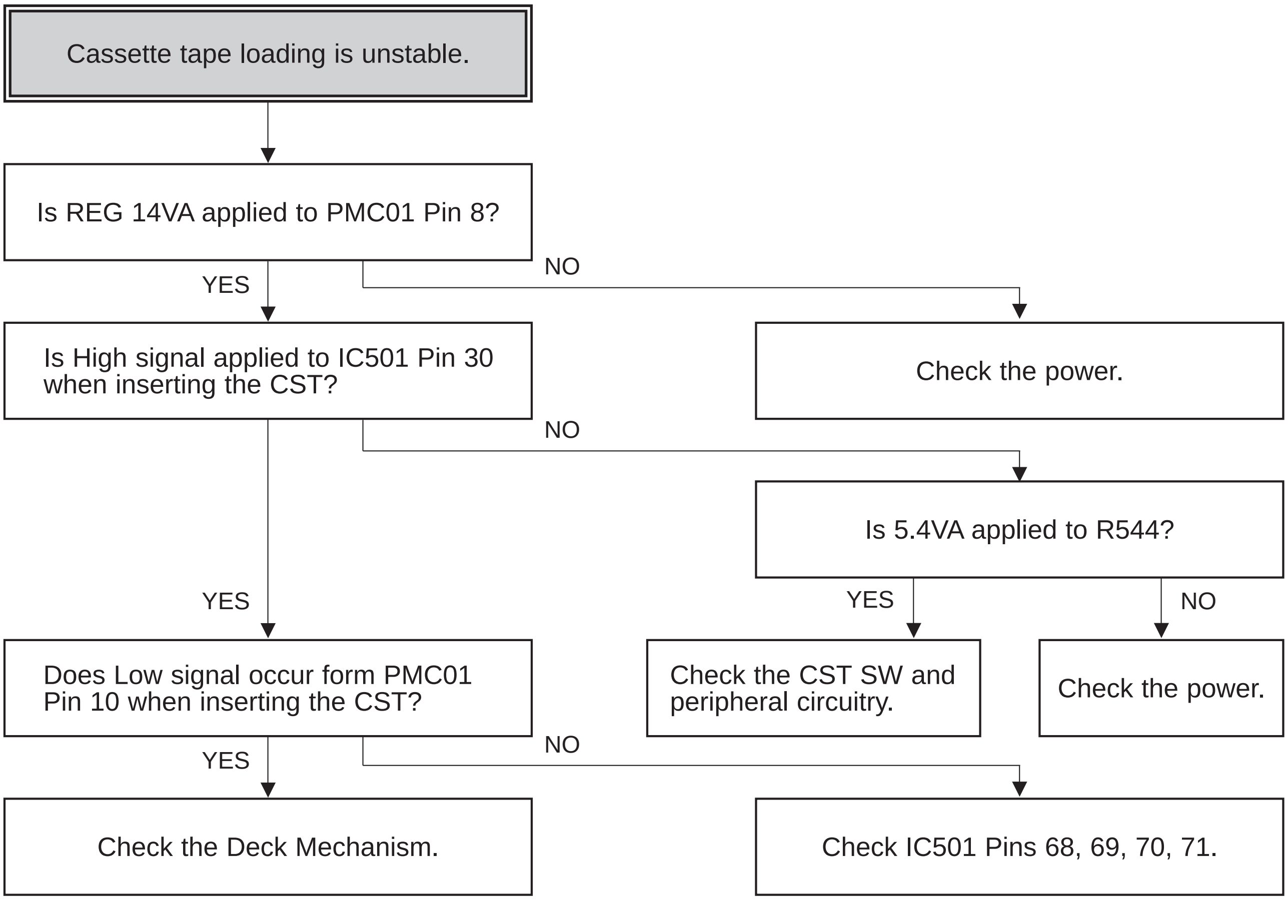

Capstan Motor Stopped.
Does 13VA appear at PMC01 Pin 2?
YES
NO
Does 2.8V appear at PMC01 Pin 9?
Check Power.
YES
NO
Check Connector and Capstan Motor Ass'y.
Does PWM wave appear at IC501 Pin 108?
YES
NO
Check the Components and foil Patterns Connected between IC501 Pin 108 and PMC01 Pin 9 for shorts.
Does the CFG signal appear at PMC01 Pin 1?
YES
NO
Does the CFG signal appear at IC501 Pin 9?
Check Capstan Motor Ass'y.
YES
NO
Does Capstan PWM appear at IC501 Pin 108?
Check Components and foil patterns between PMC01 Pin 7 and IC501 Pin 9 for shorts.
YES
NO
Check the components and foil pattern connected between IC501 Pin 108 and PMC01 Pin 9 for shorts
Replace IC501.

3. System & Front Panel Circuit

A.

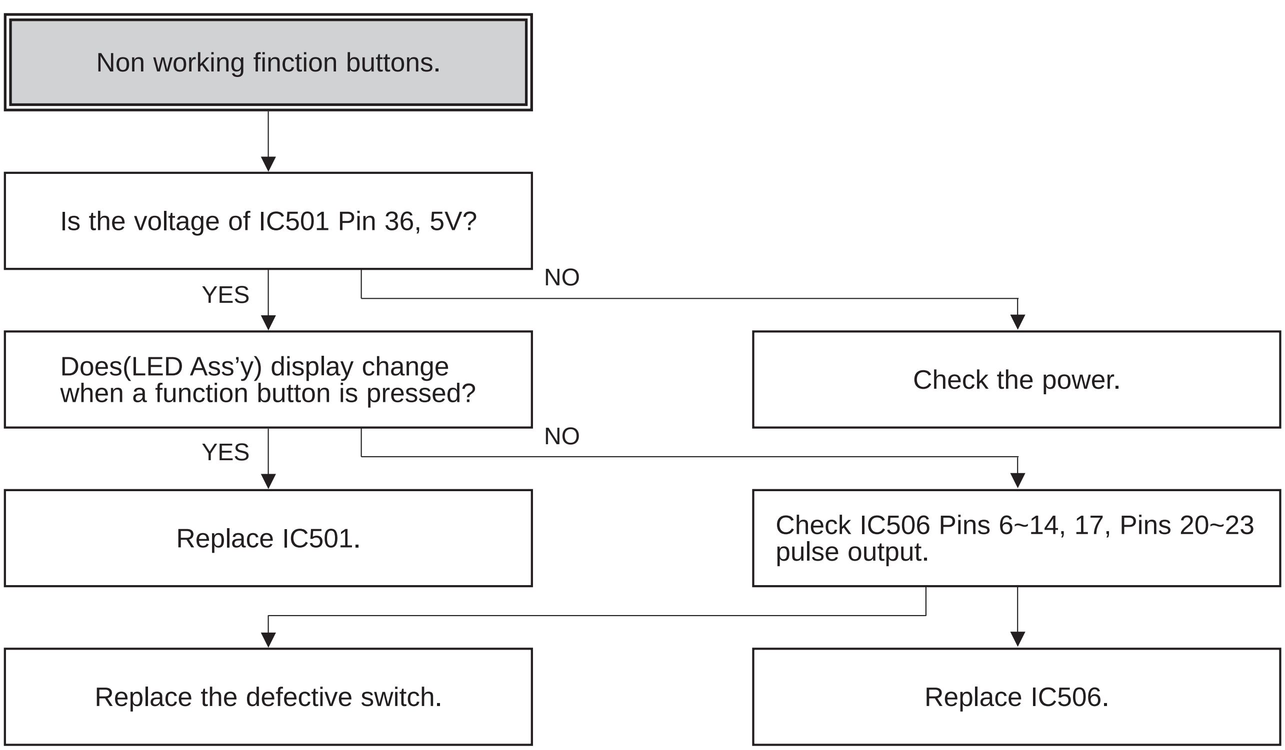


B.



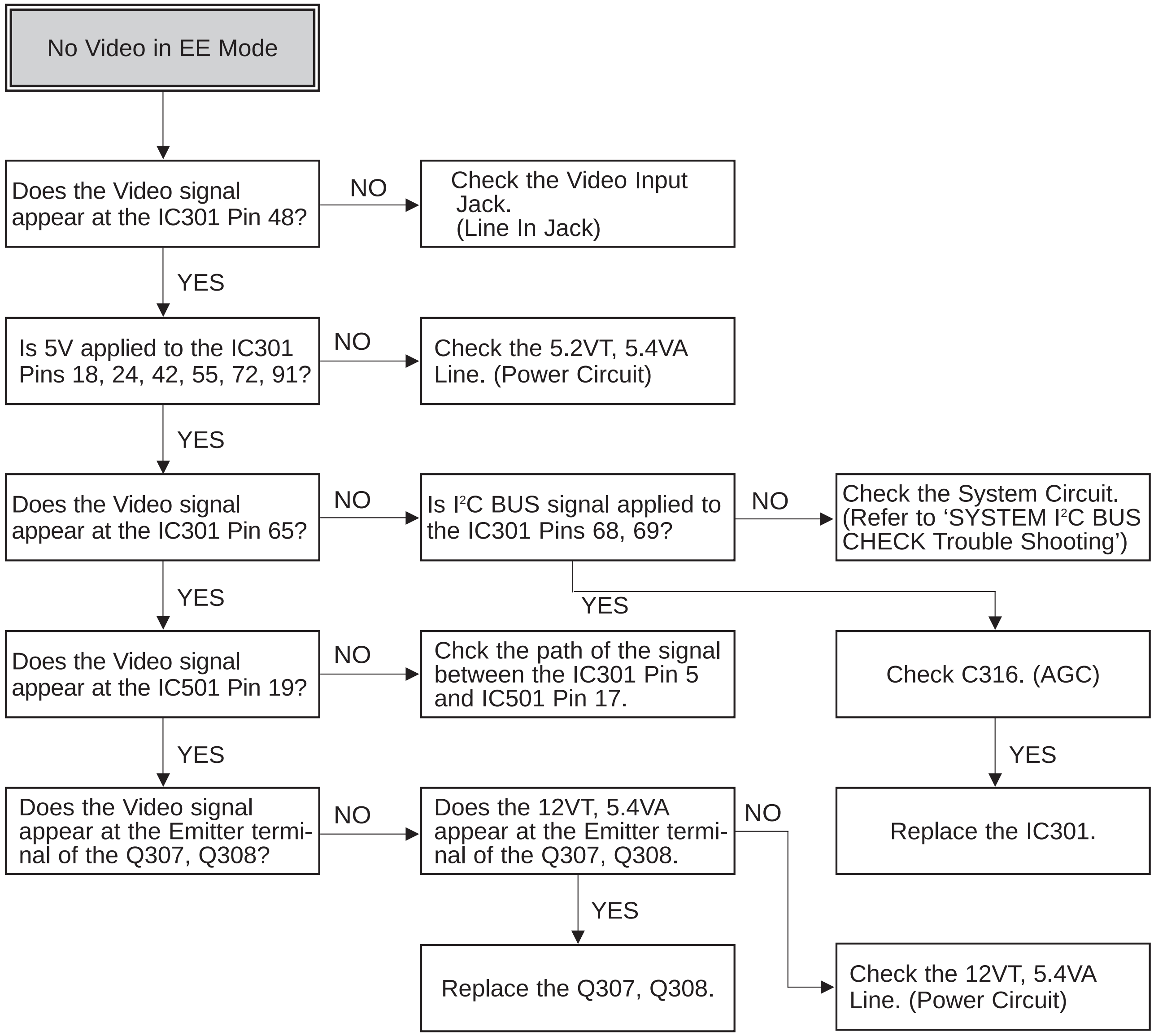
NOTE : Auto stop may also be caused by lack of lubrication,due to dried grease or oil.

C.

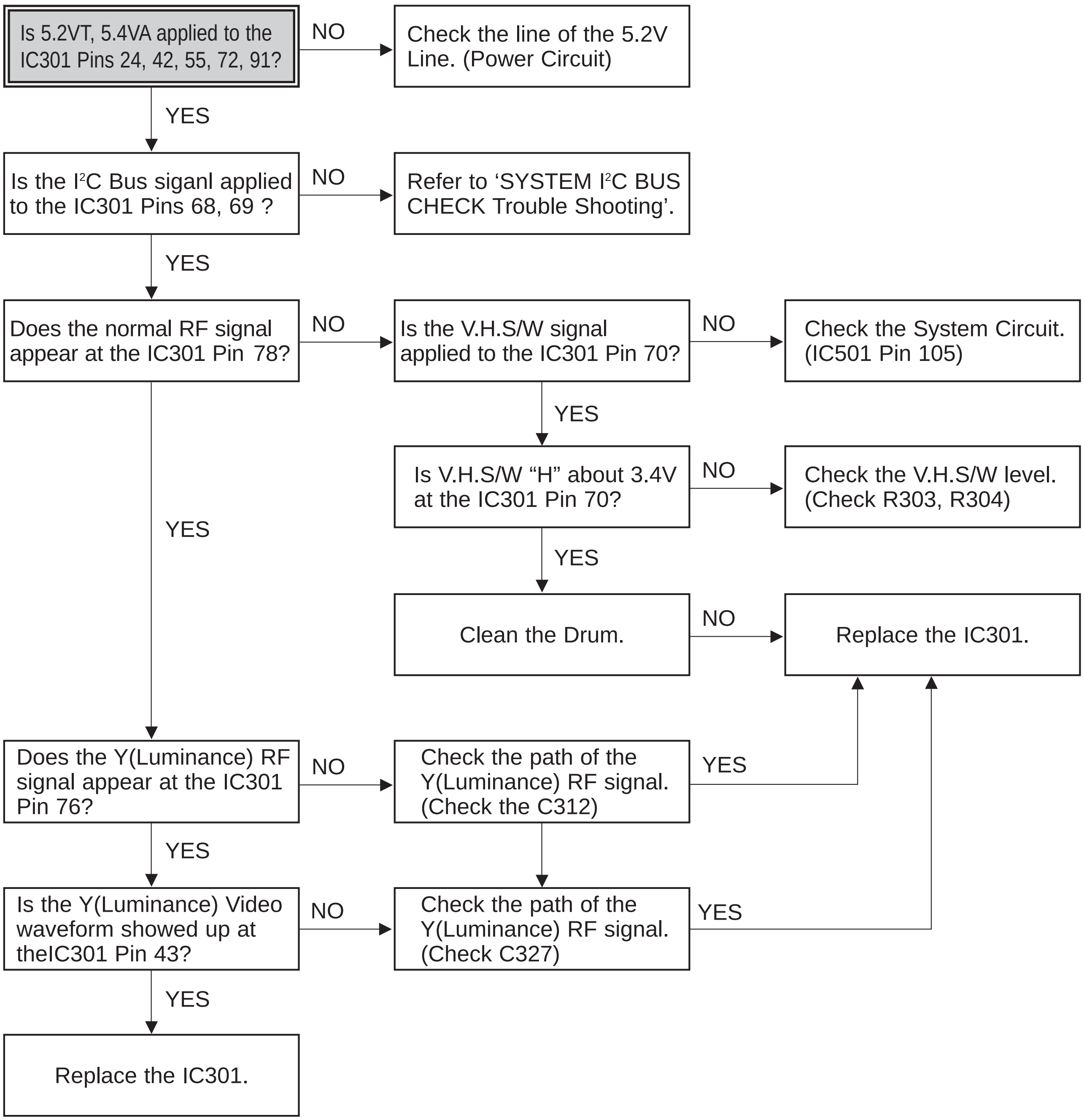


4. Y/C CIRCUIT

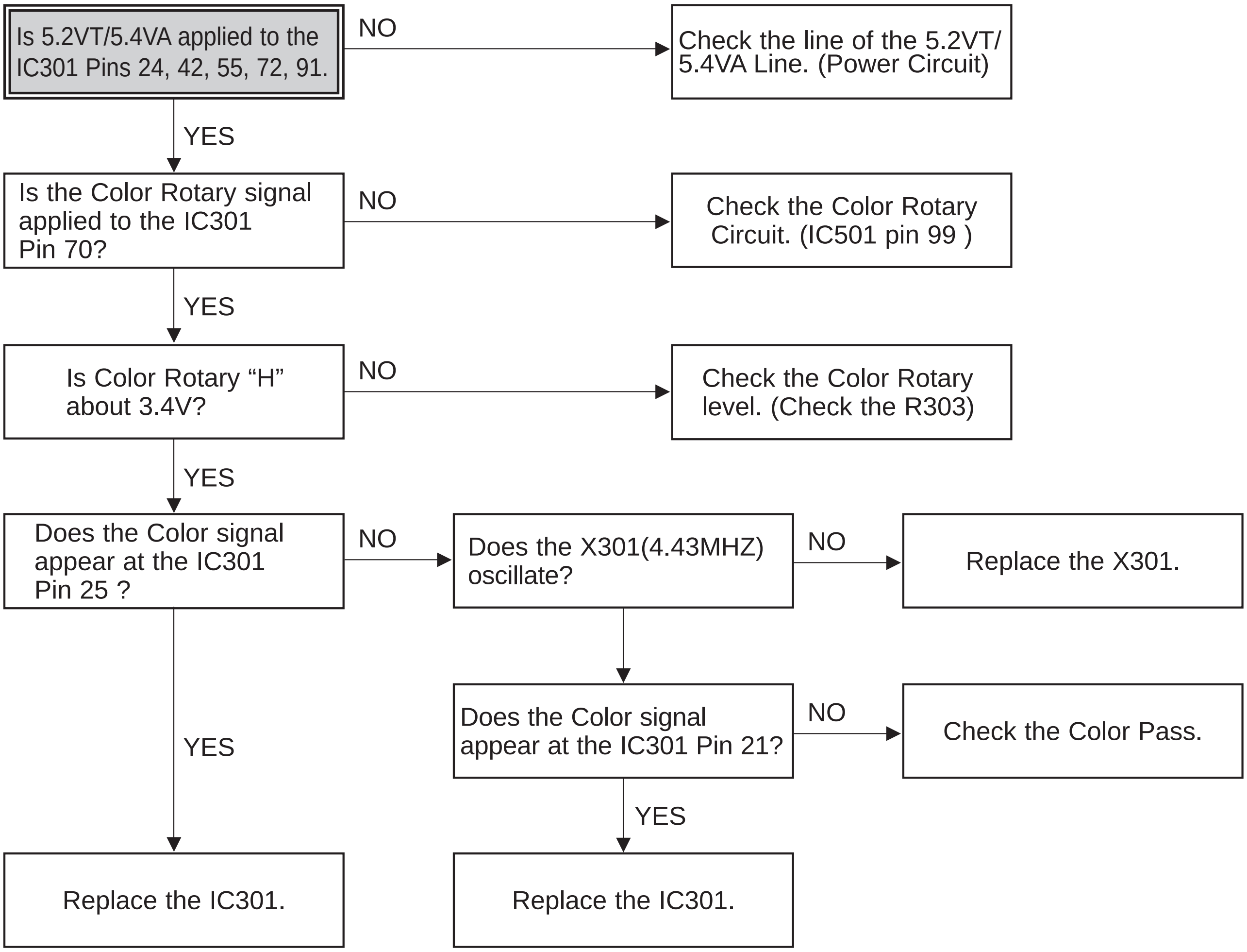
(1) No Video in EE Mode,



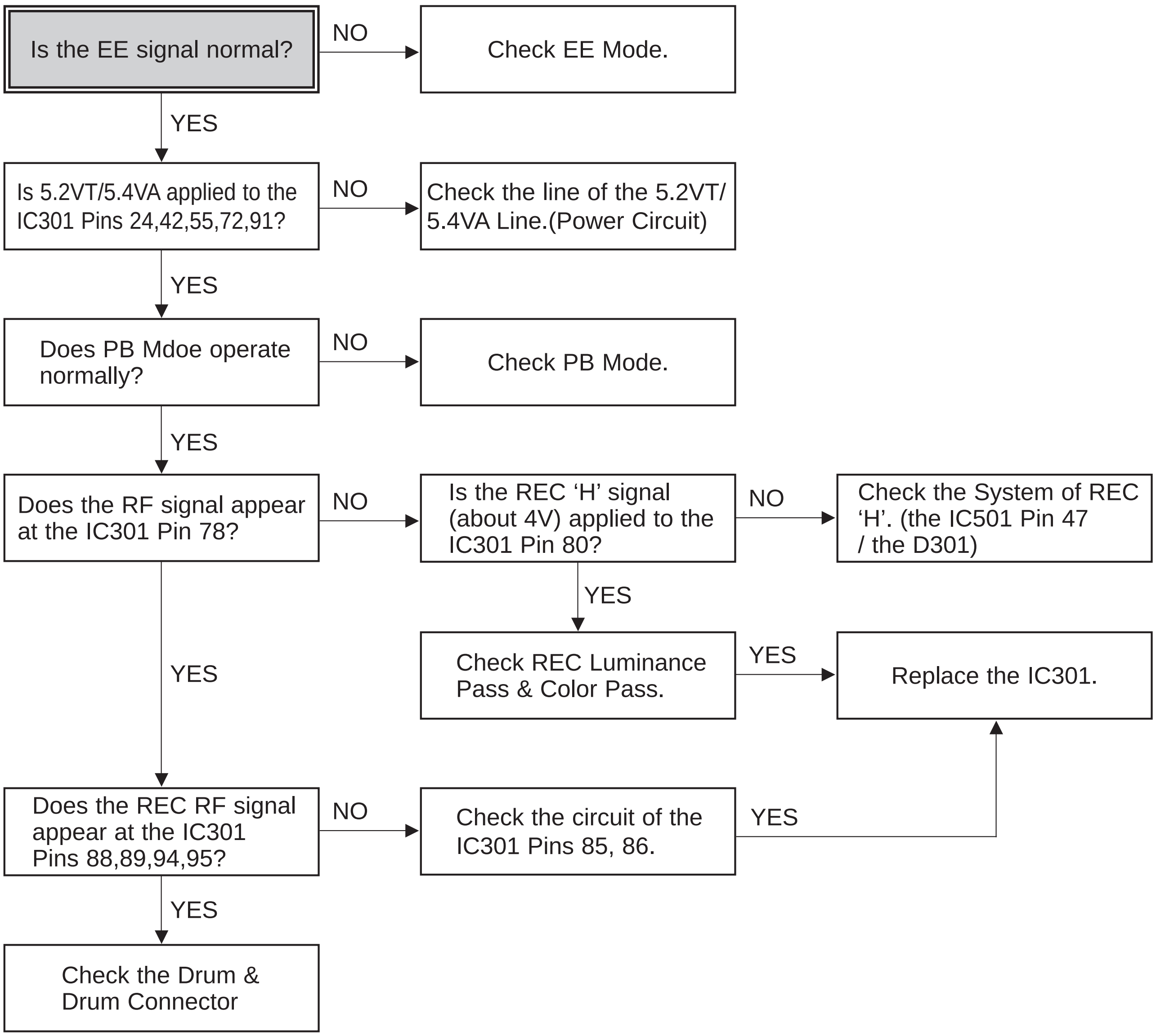
(2) When the Y(Luminance) signal doesn't appear on the screen in PB Mode,



(3) When the C(Color) signal doesn't appear on the screen in PB Mode,

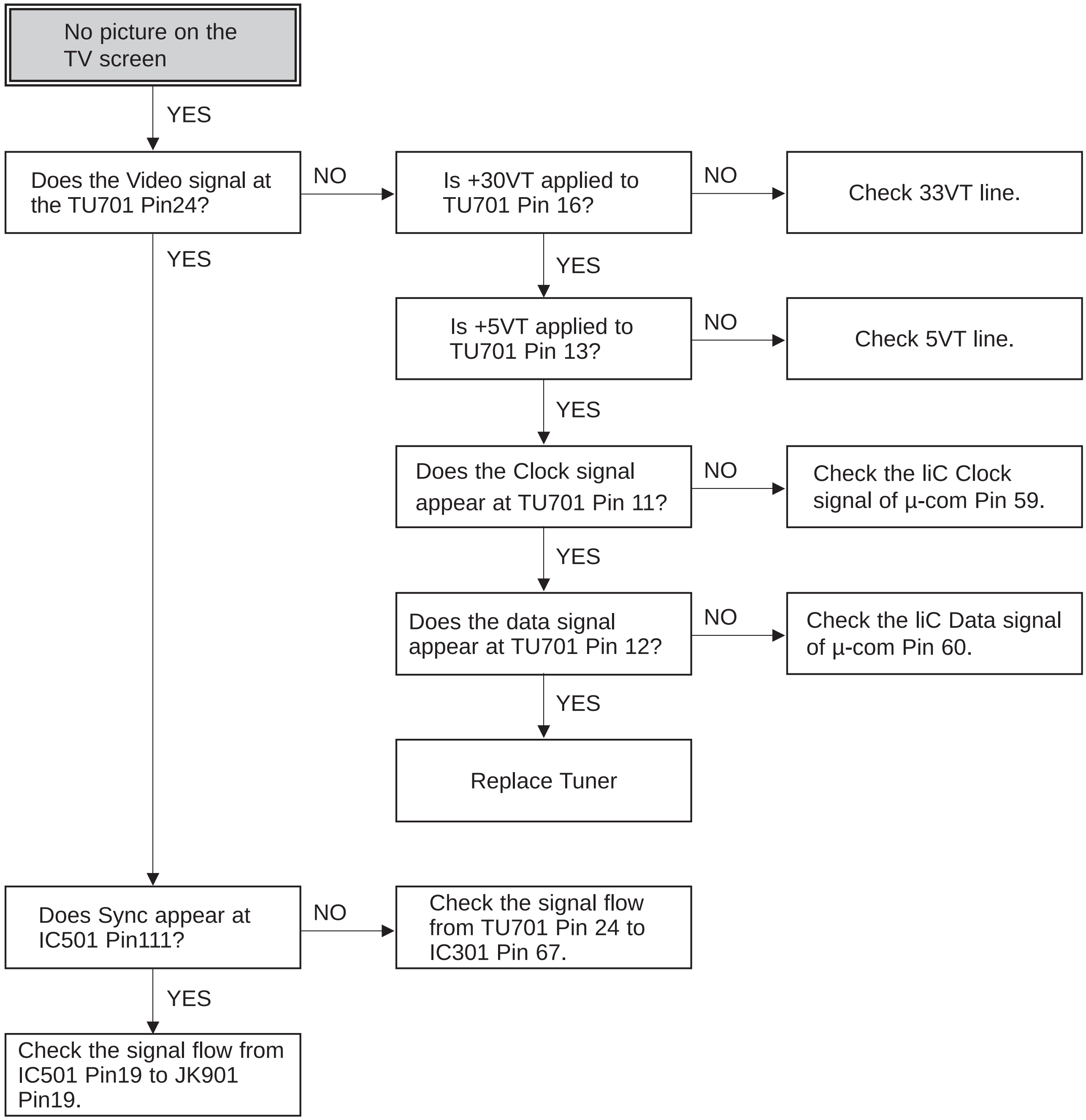


(4) When the Video signal doesn’t appear on the screen in REC Mode,

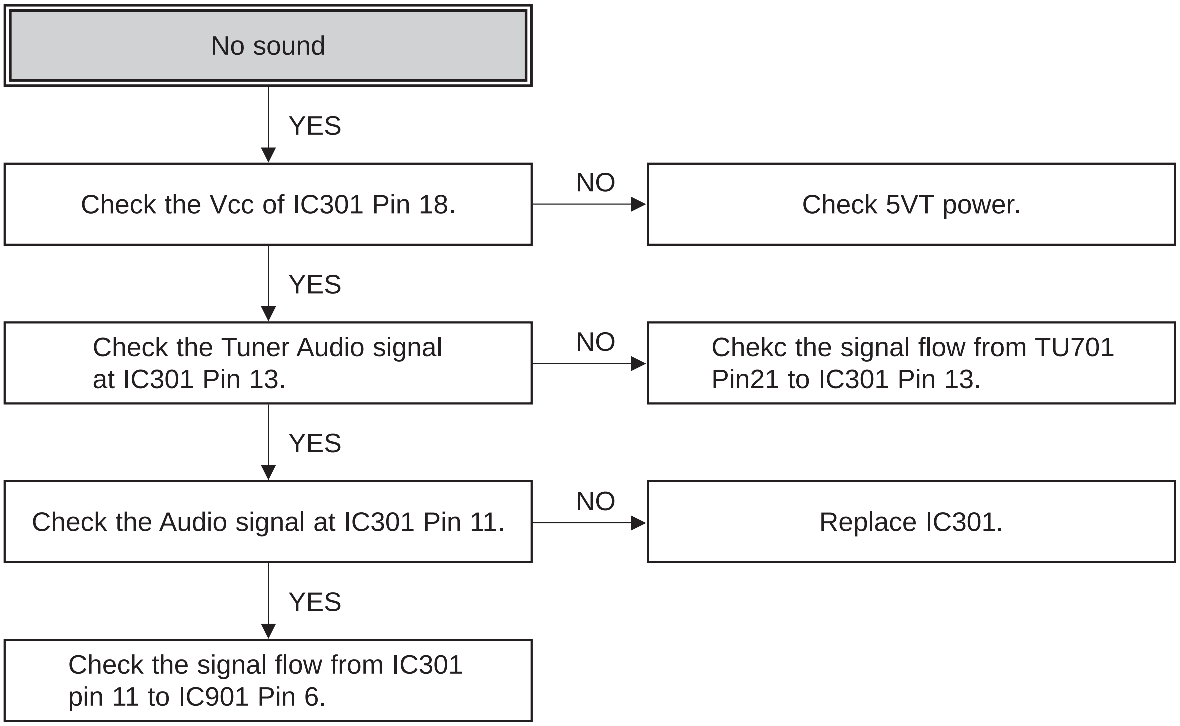


5. Tuner/IF circuit

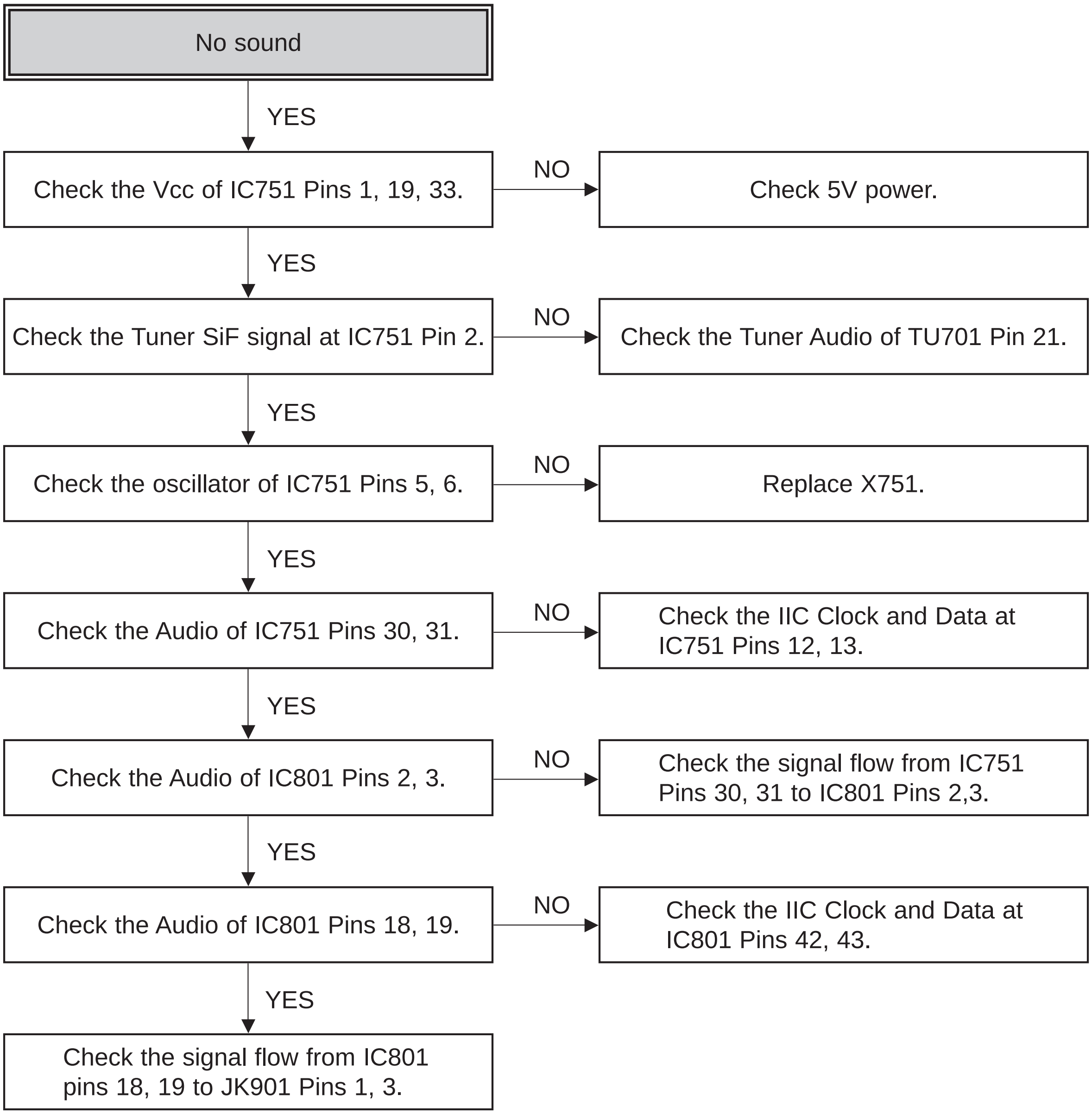
(1) No picture on the TV screen



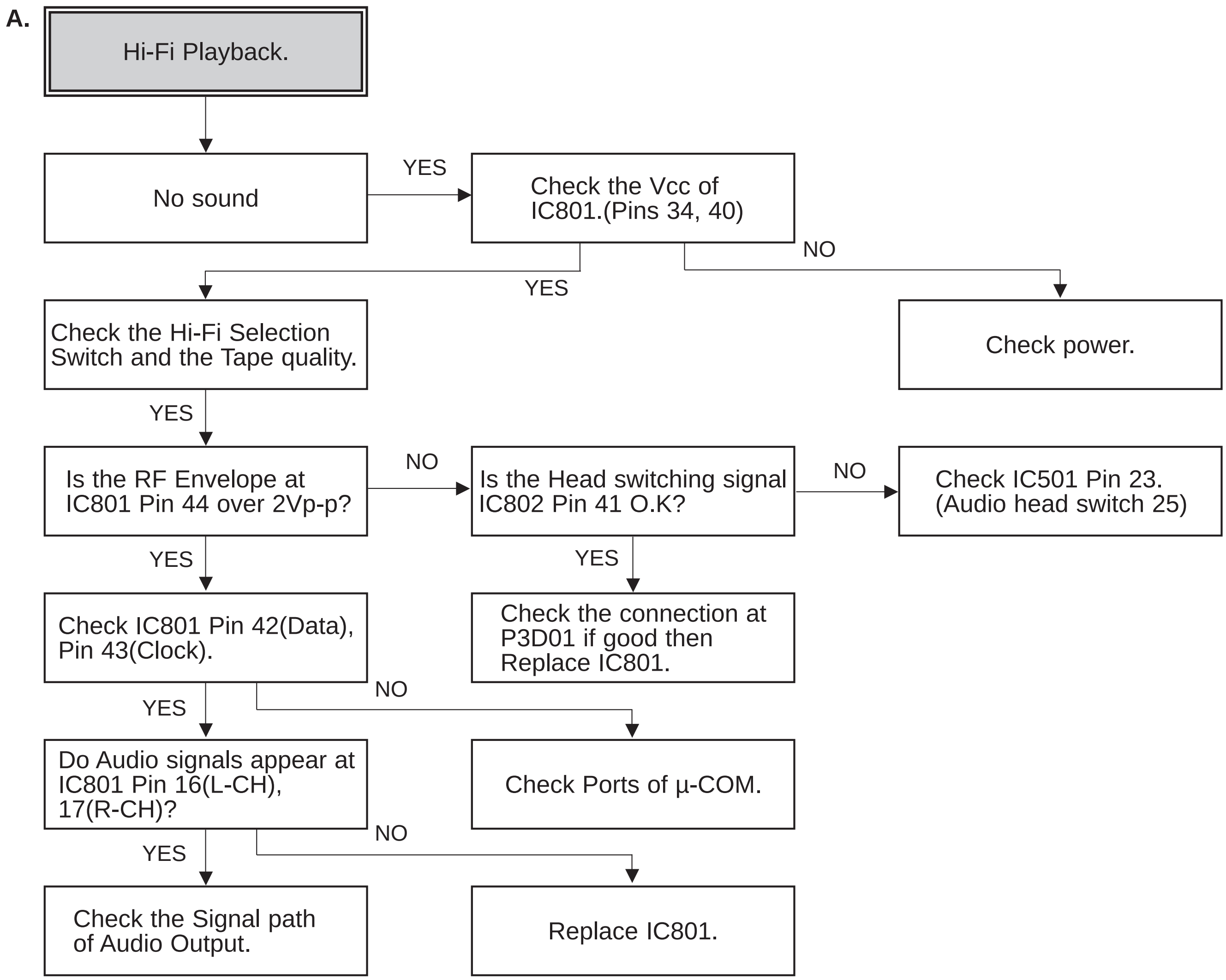
(2) No sound (Mono Model)



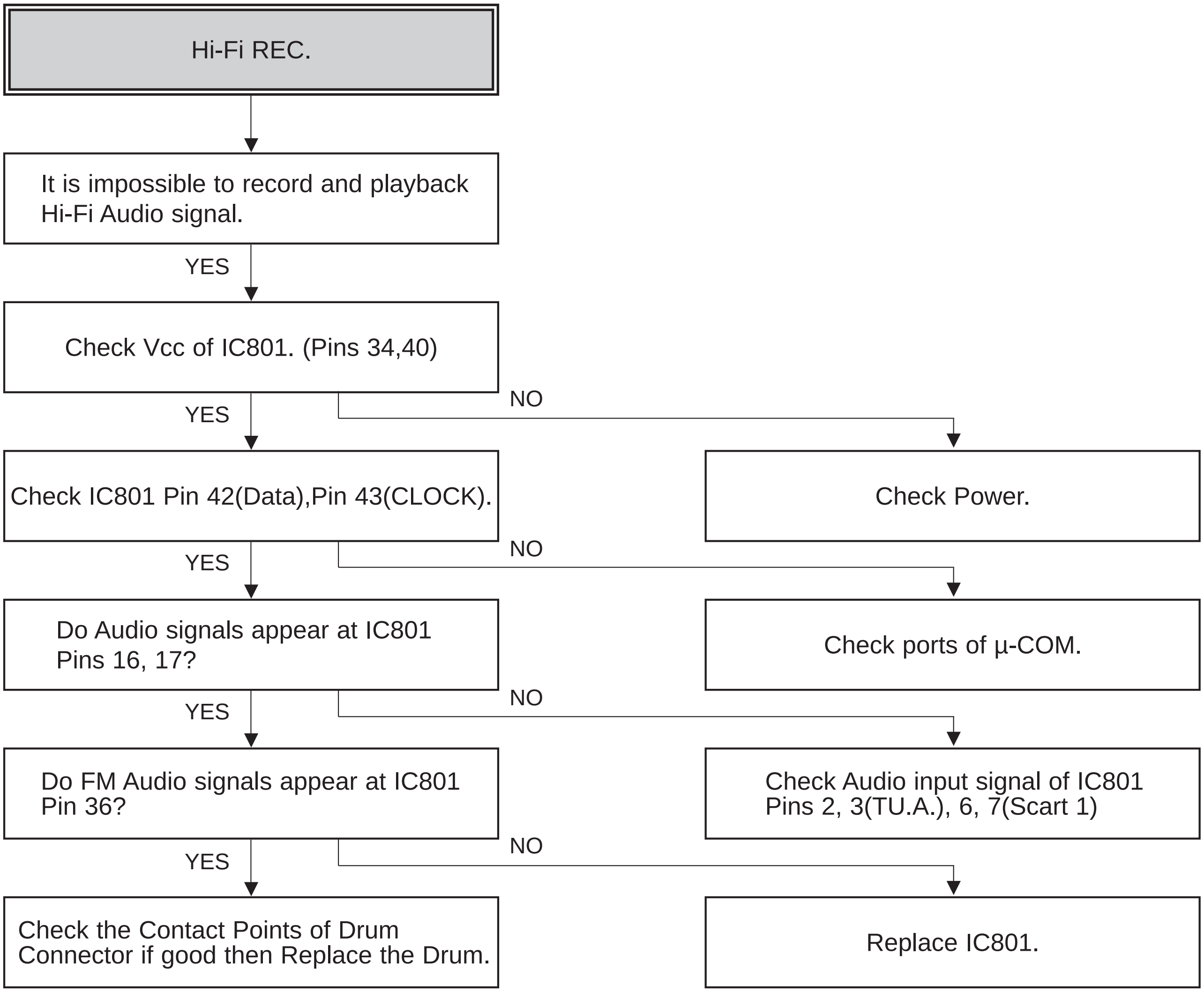
(3) No sound (Hi-Fi Model)



6. Hi-Fi Circuit (Hi-Fi Model)



B.


Hi-Fi REC.
It is impossible to record and playback Hi-Fi Audio signal.
YES
Check Vcc of IC801. (Pins 34,40)
YES
NO
Check IC801 Pin 42(Data),Pin 43(CLOCK).
Check Power.
YES
NO
Do Audio signals appear at IC801 Pins 16, 17?
Check ports of µ-COM.
YES
NO
Do FM Audio signals appear at IC801 Pin 36?
Check Audio input signal of IC801 Pins 2, 3(TU.A.), 6, 7(Scart 1)
YES
NO
Check the Contact Points of Drum Connector if good then Replace the Drum.
Replace IC801.

SECTION 4 MECHANISM

CONTENTS

DECK MECHANISM PARTS LOCATIONS

DECK MECHANISM DISASSEMBLY

DECK MECHANISM ADJUSTMENT

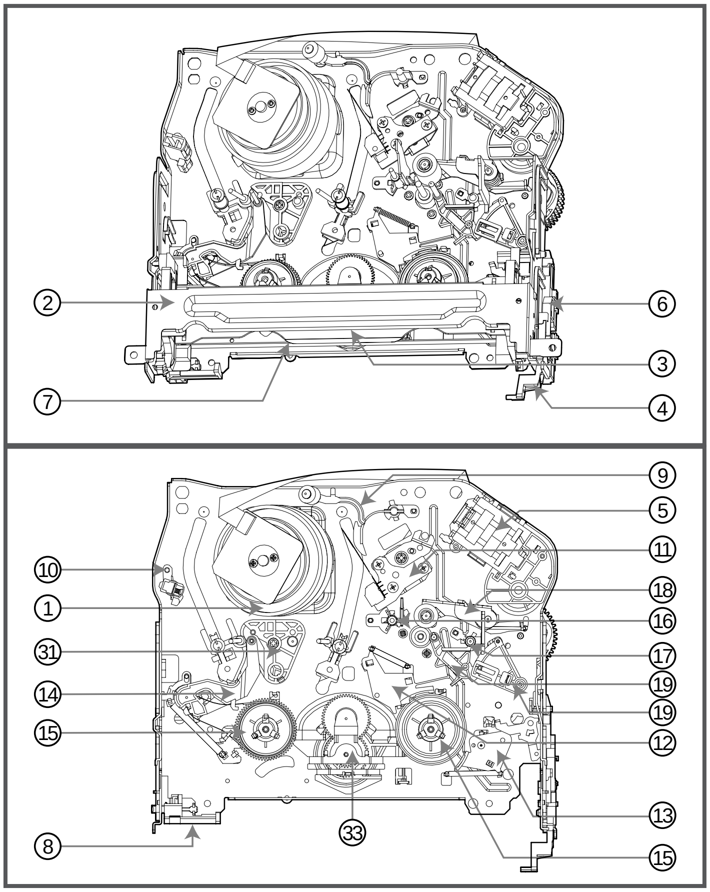
MAIN TENANCE/INSPECTION PROCEDURE

MECHANISM TROUBLESHOOTING GUIDE

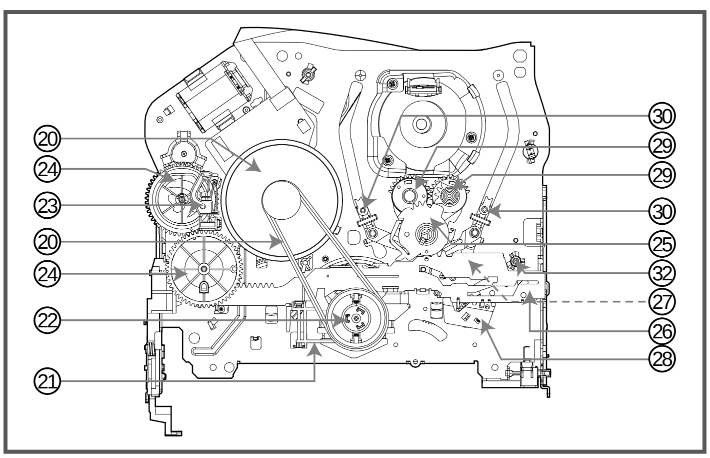
EXPLODED VIEWS

DECK MECHANISM PARTS LOCATIONS

• Top View



• Bottom View



Pracedure / Starting No.		Part	Fixing Type	Fig-ure	Vi-ew
	1	Drum Assembly	3 Screw	A-1	T
	2	Plate Top	2 Hook	A-2	T
2	3	Holder Assembly CST	Chassis Hole	A-2	T
2	4	Opener Door	Chassis Hole	A-2	T
	5	Bracket Assembly L/D Motor	3 Hook	A-2	T
2,3,4	6	Gear Assembly Rack F/L	1 Hook, Chassis Hole	A-2	T
2,3,4,6	7	Arm Assembly F/L	Chassis Hole	A-2	T
	8	Lever Assembly S/W	1 Hook	A-2	T
	9	Arm Assembly Cleaner	Chassis Embossing	A-3	T
	10	Head F/E	Chassis Embossing	A-3	T
	11	Base Assembly A/C Head	1 Screw	A-3	T
2,3	12	Brake Assembly RS	1 Hook	A-4	T
2,3	13	Brake Assembly T	1 Hook	A-4	T
2,3	14	Arm Assembly Tension	2 Hook	A-4	T
2,3,12,13, 14	15	Reel S/Reel T		A-4	T
	16	Base Assembly P4	Chassis Embossing	A-5	T
	17	Opener Lid	Chassis Embossing	A-5	T
17	18	Arm Assembly Pinch	Shaft	A-5	T
17	19	Lever T/Up / Arm T/Up	1 Hook	A-5	T
17,18	20	Belt Capstan/Motor Capstan	3 Screw	A-6	B
	21	Lever F/R	Locking Tab	A-6	B
20, 21	22	Clutch Assembly D35	Washer	A-6	B
	23	Break Assembly Capstan	Locking Tab	A-6	B
	24	Gear Drive/Gear Cam	Washer/Hook	A-7	B
	25	Gear Sector	1 Hook	A-7	B
20,21,23, 24,25	26	Plate Slider	Shaft Guide	A-7	B
20,21,23, 24,25,26	27	Lever Tension	1 Hook	A-7	B
2,3,14,20, 21,25,23, 24,26	28	Lever Spring	Locking Tab	A7	B
25	29	Gear Assembly P2/Gear Assembly P3	Boss	A-8	B
2,3,14,25, 29	30	Base Assembly P2/Base Assembly P3	Chassis Slot	A-8	B
2,3,14,25, 29	31	Base Loading	1 Screw	A-9	T
2,3,14	32	Base Tension	Chassis Embossing	A-9	B
2,3,20,21, 22	33	Arm Assembly Idler	Locking Tab	A-9	T

R: Top, B:Bottom

NOTE : When reassembly perform the procedure in the reverse order.

1) When reassembling, confirm Mechanism and Mode Switch Alignment Position (Pefer to Page 4-14)
2) When disassembling, the Parts for Starting No. Should be removed first.

DECK MECHANISM DISASSEMBLY

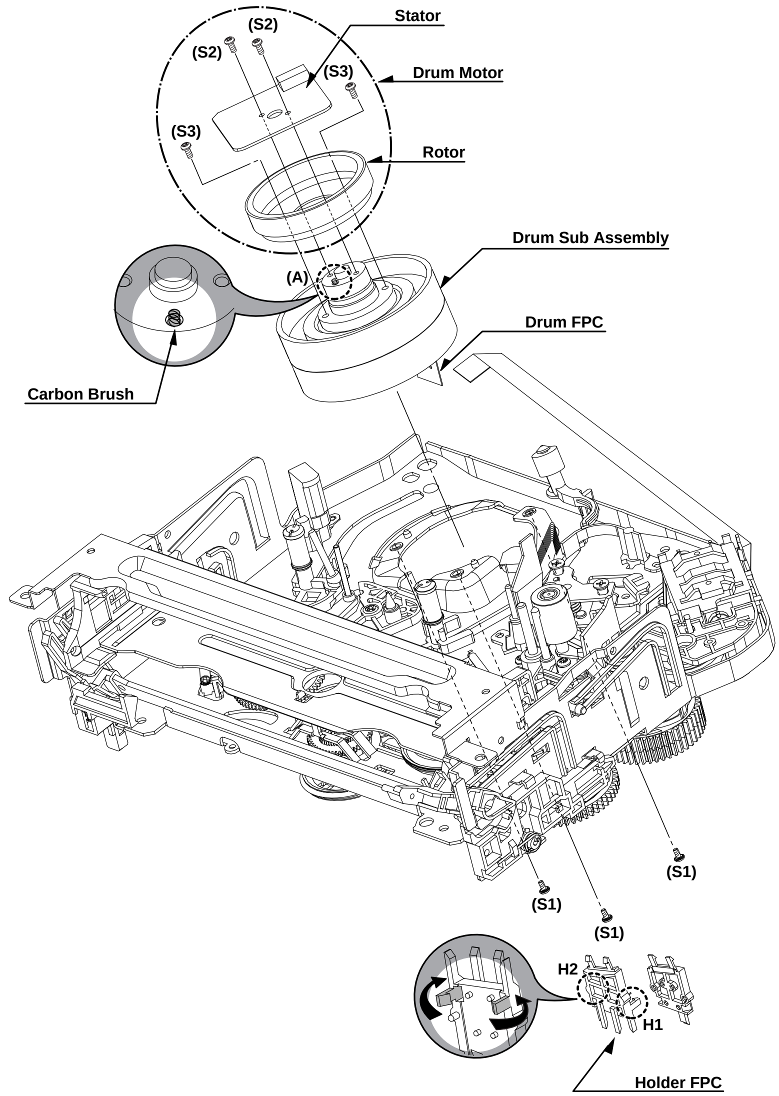


Fig. A-1

1. Drum Assembly (Fig. A-1-1)

1) Unplug the Drum FPC Connector.
2) Remove three Screws(S1) on bottom side and separate the Drum assembly.
3) Unhook (H1), (H2) and separate the Holder FPC and Cap FPC.

1-1. Drum Motor

1) Remove two Screws(S2) and disassemble the Stator of the Drum Motor.
(2) Remove two Screws(S3) and separate the Rotor of the Drum Motor from the Drum Sub assembly.

NOTE

When reassembling, confirm (A) portion of the Drum Sub assembly whether the Carbon Brush is in there or not.

(Fig. B-1)

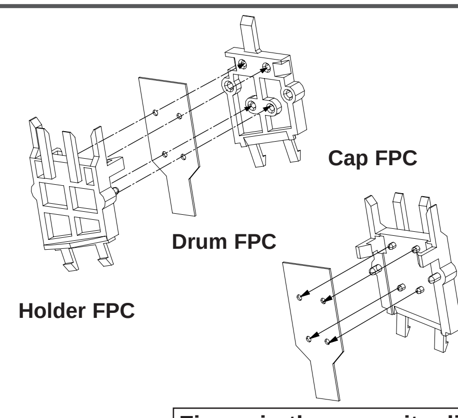


Figure in the opposite direction

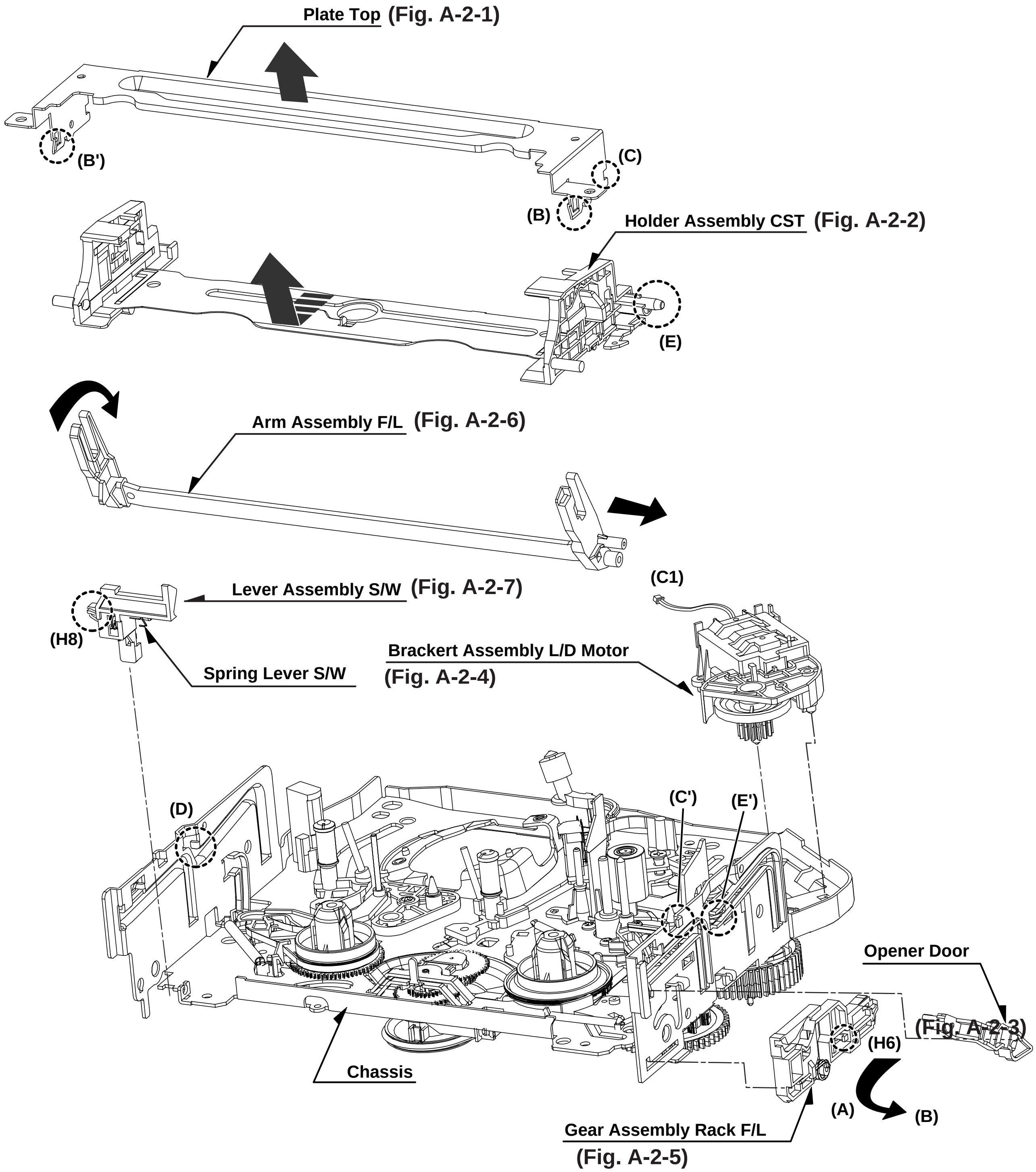

Plate Top (Fig. A-2-1)
(B')
(C)
(B)
Holder Assembly CST (Fig. A-2-2)
(E)
Arm Assembly F/L (Fig. A-2-6)
Lever Assembly S/W (Fig. A-2-7)
(C1)
(H8)
Brackert Assembly L/D Motor
(Fig. A-2-4)
Spring Lever S/W
(D)
(C')
(E')
Opener Door
(Fig. A-2-3)
(H6)
Chassis
(A)
(B)
Gear Assembly Rack F/L
(Fig. A-2-5)

Fig. A-2

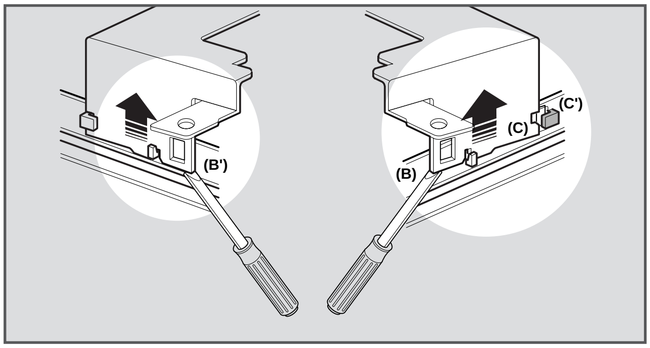
DECK MECHANISM DISASSEMBLY

2. Plate Top (Fig. A-2-1)

1) Pull the (B) portion of the Plate Top back in direction of arrow and separate the right side of it.
2) pull the (B') portion of the Plate Top back in direction of arrow and separate the left side of it.
   (Used tools : (-) type Drive, anything tool with sharp point or flat point.)

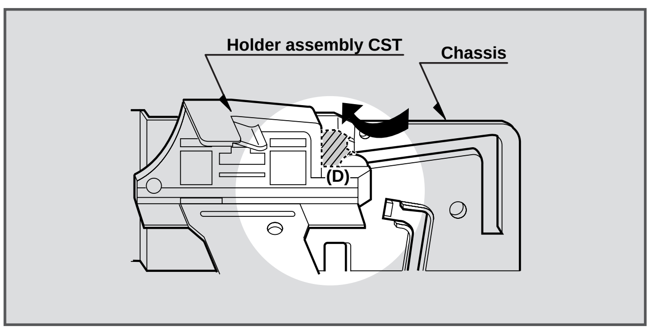
NOTE

(1) When reassembling, push the Plate Top after alignment the two position(C), (C') as Fig.



3. Holder Assembly CST (Fig.A-2-2)

1) Move the Holder assembly CST in direction of arrow and separate the left side of it first through the (D) position of the Chassis.



2) Disassemble the right side of the Holder assembly CST from each guided hole of the Chassis.

NOTE

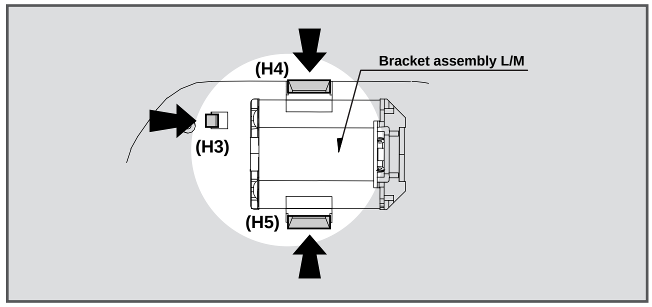
When reassembling, insert the (E) part of the Holder assembly CST in the (E') hole of the Chassis
first and assemble the left side of it.

4. Opener Door (Figure. A-2-3)

1) Turn the Opener Door clockwise and remove it through the guide hole of the chassis.

5. Bracket assembly L/D Motor(Fig. A-2-4)

1) Unplug the Connector(C1).
2) Unhook three Hooks(H3,H4,H5) on bottom side of the Chassis, lift up the Bracket assembly L/M and disassemble the Bracket assembly L/D Motor.

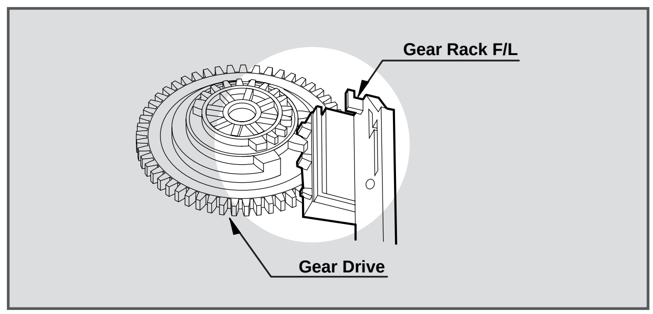


6. Gear Assembly Rack F/L (Fig. A-2-5)

1) Move the Gear Assembly Rack F/L in direction of arrow(A) and unhook the Hook(H6) pulling back in front.
2) Separate the Rear Rack F/L in direction of arrow(B).

NOTE

When reassembling, align the Gear part of the Gear Assembly Rack F/L with the Gear Drive as below Fig.

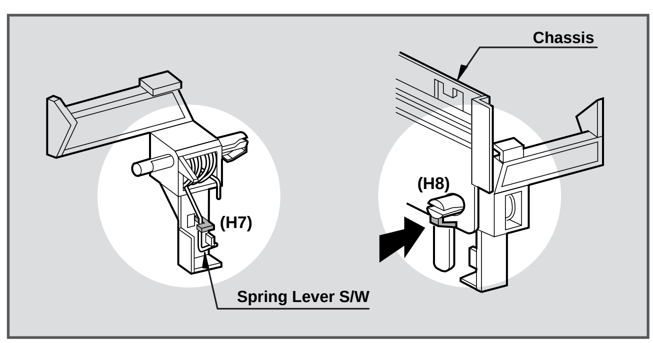


7. Arm assembly F/L (Fig. A-2-6)

1) Move the Arm assembly F/L in direction of arrow and separate the left side of it first.
2) Disassemble the Arm assembly F/L from each guided Hole of the Chassis.

8. Lever assembly S/W(Fig. A-2-7)

1) Hook the Spring Lever S/W on the Hook(H7) first as below Fig.
2) Unhook the Hook(H8) in the left side of the Chassis and move the Lever assembly S/W.



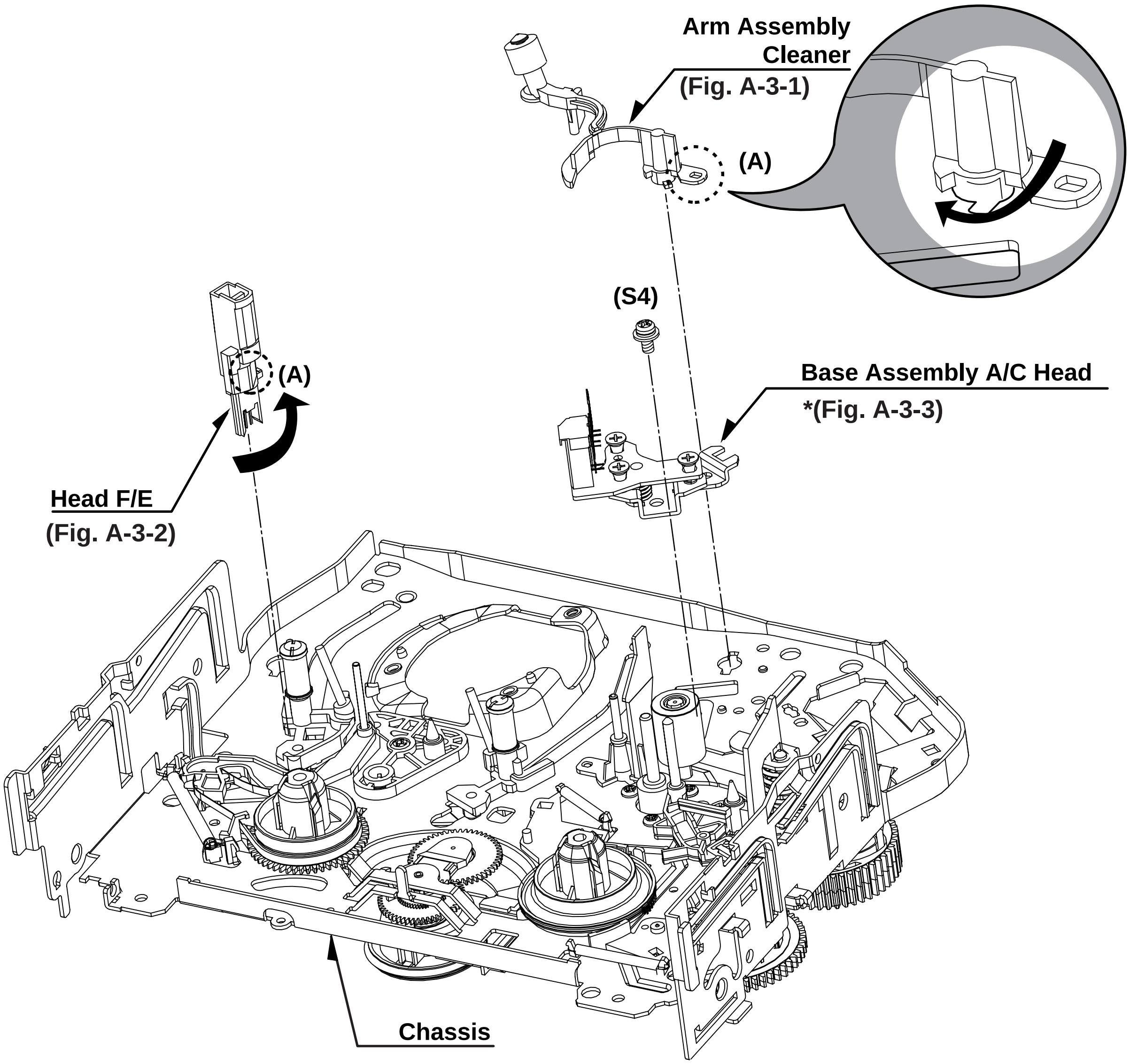


Fig. A-3

9. Arm assembly Cleaner (Fig. A-3-1)

1) Breakaway the (A) portion as Fig. A-3-1 from the Embossing of the Chassis, turn the Arm assembly Cleaner to clockwise direction and lift it up.

10. Head F/E (Fig. A-3-2)

1) Breakaway the (A) portion of the Head F/E from the Embossing of the Chassis, turn it to counterclockwise direction and lift it up.

11. Base assembly A/C Head (Fig. A-3-3)

1) Remove the Screw(S4) and lift the Base assembly A/C Head up.

DECK MECHANISM DISASSEMBLY

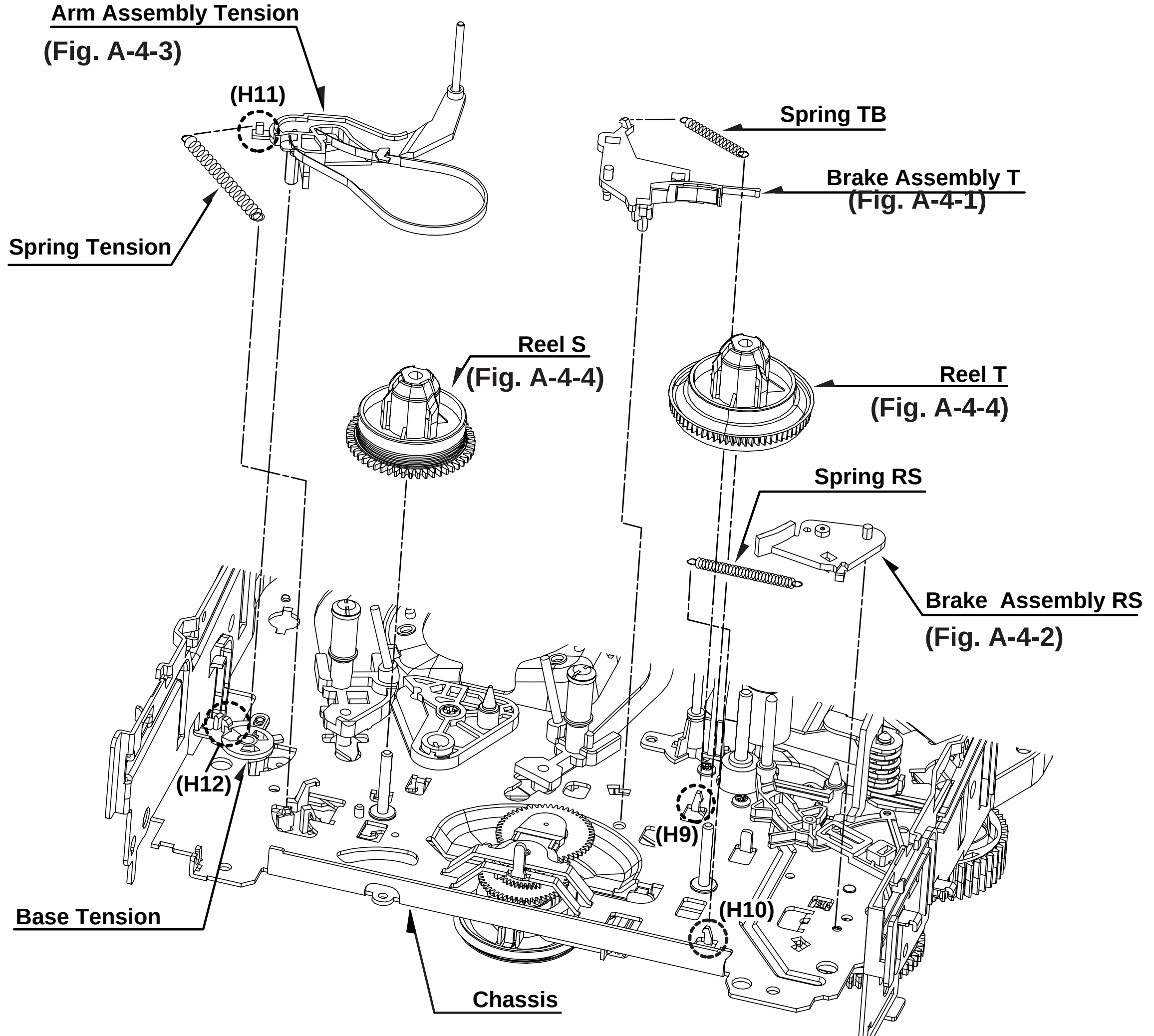


Fig. A-4

12. Brake assembly T (Fig. A-4-1)

1) Unhook the Spring TB from the Hook(H9) of the Chassis.
2) Lift the Brake assembly T up.

13. Brake assembly RS (Fig. A-4-2)

1) Unhook the Spring RS from the Hook(H10) of the Chassis..
2) Lift the Brake assembly T up.

14. Arm assembly Tension (Fig. A-4-3)

1) Unhook the Spring Tension from the Hook(H11) of the Arm assembly tension.
2) Unhook the Hook(H12) of the Base Tension and lift the Arm assembly Tension up.

NOTE

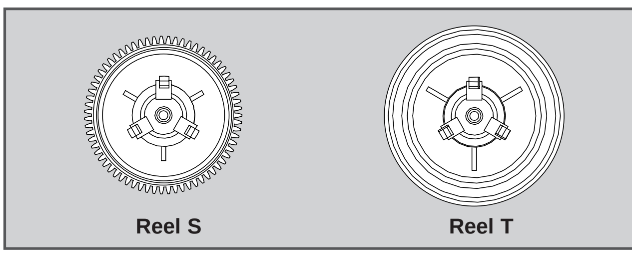
Difference for Springs

(Difference for Springs)

	Spring TB
	Spring RS Color (Black)
	Spring Tension

15. Reel S / Reel T (Fig. A-4-4)

1) Difference for Reel S / Reel T



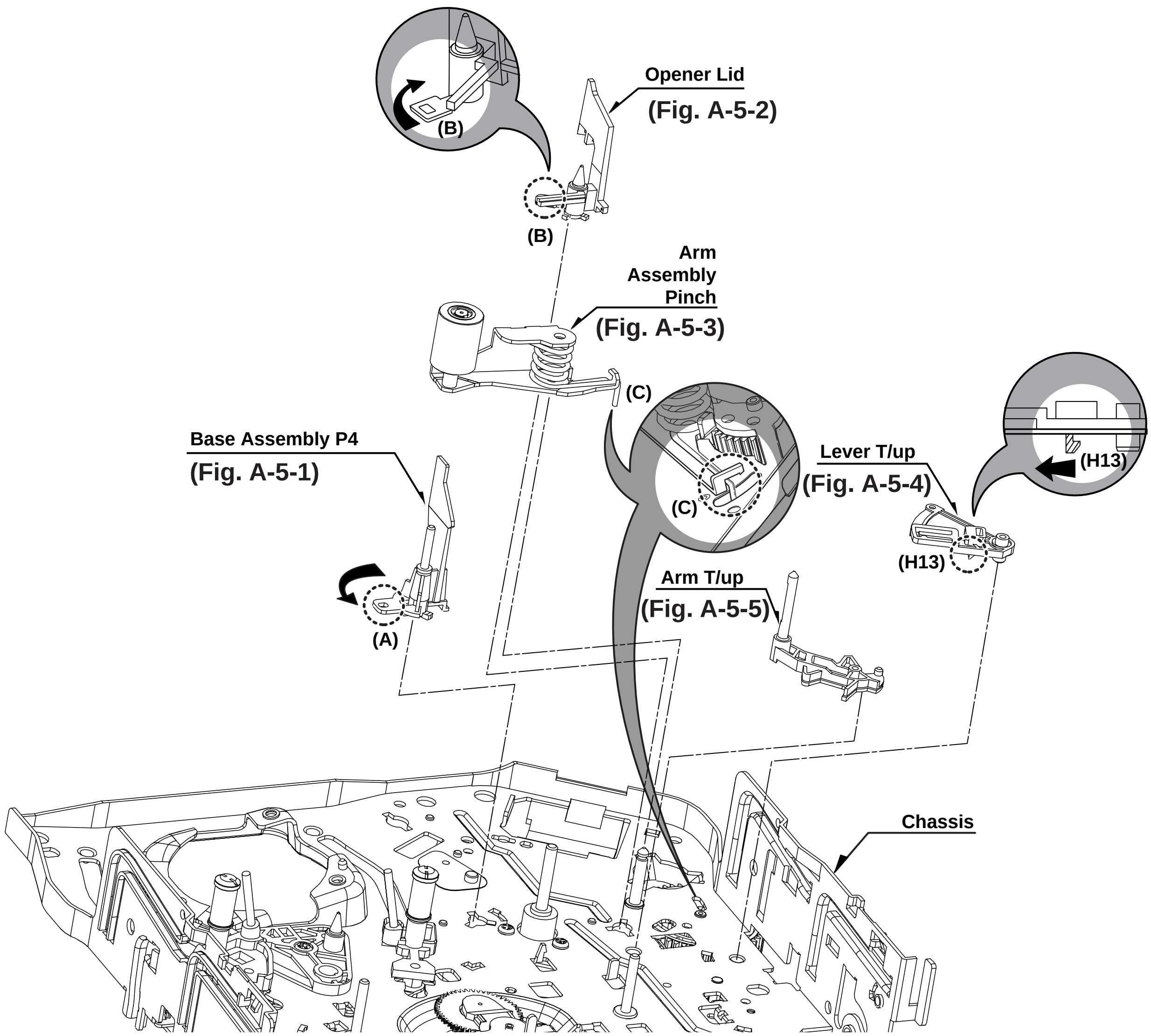


Fig. A-5

16. Base assembly P4 (Fig. A-5-1)

1) Breakaway the (A) portion of the Base assembly P4 from the Embossing of the Chassis.
2) Turn the Base assembly P4 to counterclockwise direction and lift it up.

17. Opener Lid (Fig. A-5-2)

1) Breakaway the (B) portion of the Opener Lid from the Embossing of the Chassis.
2) Turn the Opener Lid to clockwise direction and lift it up.

18. Arm assembly Pinch (Fig. A-5-3)

1) Lift the Arm assembly Pinch up.

19. Lever T/up (Fig. A-5-4)/ Arm T/up (Fig. A-5-5)

1) Unhook the Hook(H13) of the bottom Chassis and lift the Lever T/up up.
2) Lift the Arm T/up up.

NOTE

When reassembling, confirm the (C) portion of the Arm assembly Pinch is inserted to the Chassis Hole correctly as Fig.

Place the Mechanism face down, or up side down.

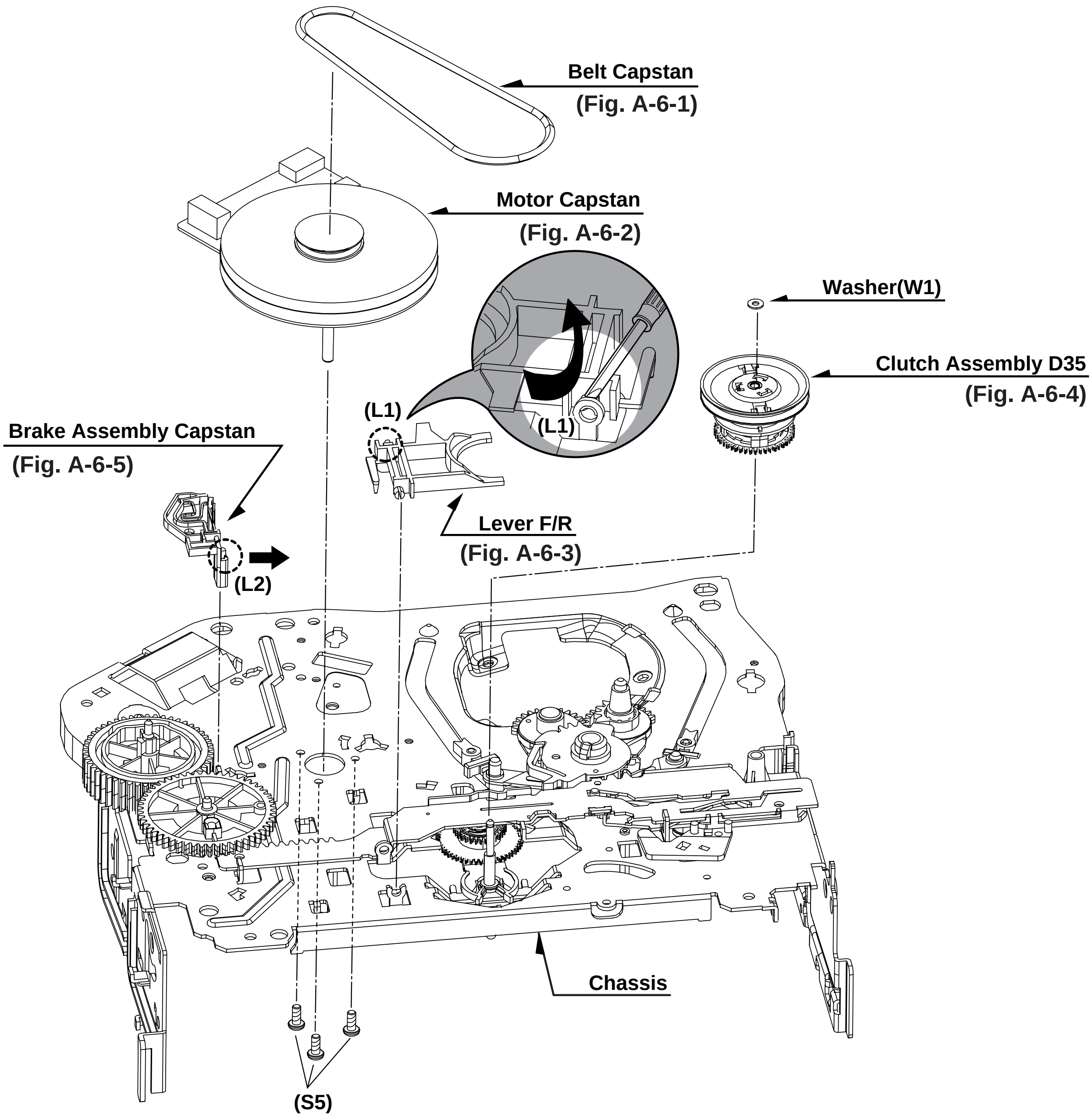


Fig. A-6

20. Belt Capstan (Fig. A-6-1)/ Motor Capstan (Fig. A-6-2)

1) Remove the Belt Capstan.
2) Remove the three Screws(S5) on bottom Chassis and lift the Motor Capstan up.

21. Lever F/R (Fig. A-6-3)

1) Unlock the Locking Tab(L1) as Fig. A-6-3 and lift the Lever F/R up.

22. Clutch assembly D35 (Fig. A-6-4)

1) Remove the Washer(W1) and lift the Clutch assembly D35 up.

23. Brake assembly Capstan (Fig. A-6-5)

1) Pull the Locking Tab(L2) back in direction of arrow and lift it up.

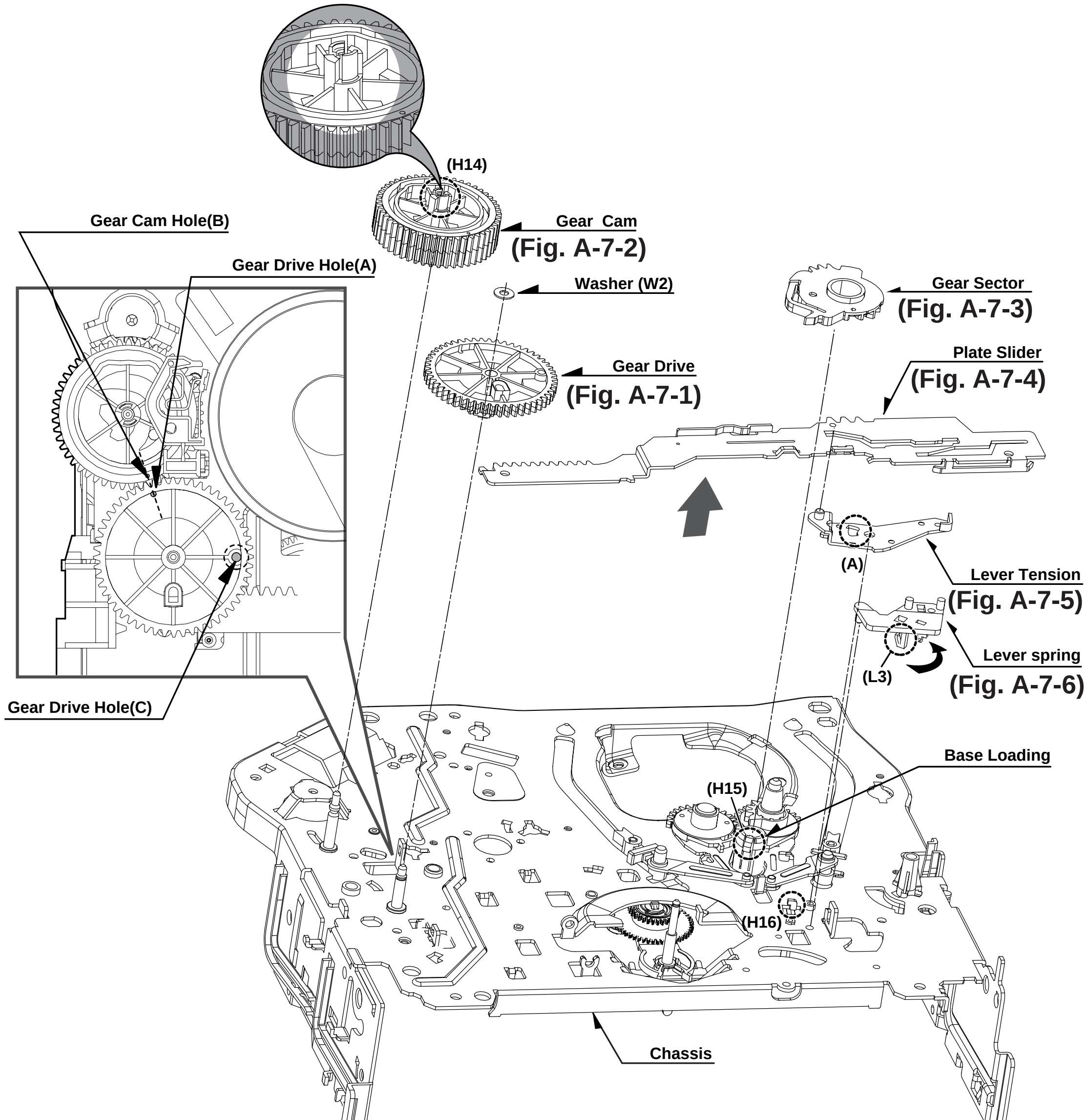


Fig. A-7

24. Gear Drive (Fig. A-7-1)/ Gear Cam (Fig. A-7-2)

1) Remove the Washer(W2) and lift the Gear Drive up.
2) Unhook the Hook(H14) of the Gear Cam and lift the Gear Cam up.

NOTE

When reassembling, align the Gear Drive Hole(A) and the Gear Cam Hole(B) in a straight line after the Gear Drive Hole(C) is aligned with the Chassis Hole as Fig.

25. Gear Sector (Fig. A-7-3)

1) Unhook the Hook(H15) of the Base Loading on bottom Chassis and lift the Gear Sector up.

26. Plate Slider (Fig. A-7-4)

1) Just lift the Plate Slider up.

27. Lever Tension (Fig. A-7-5)

1) Unhook the (A) portion of the Lever Tension from the Hook(H16) of the Chassis.
2) Turn the Lever Tension to counterclockwise direction and lift it up.

28. Lever Spring (Fig. A-7-6)

1) Unlock the Locking Tab(L3) of the bottom Chassis and lift the Lever Spring up.

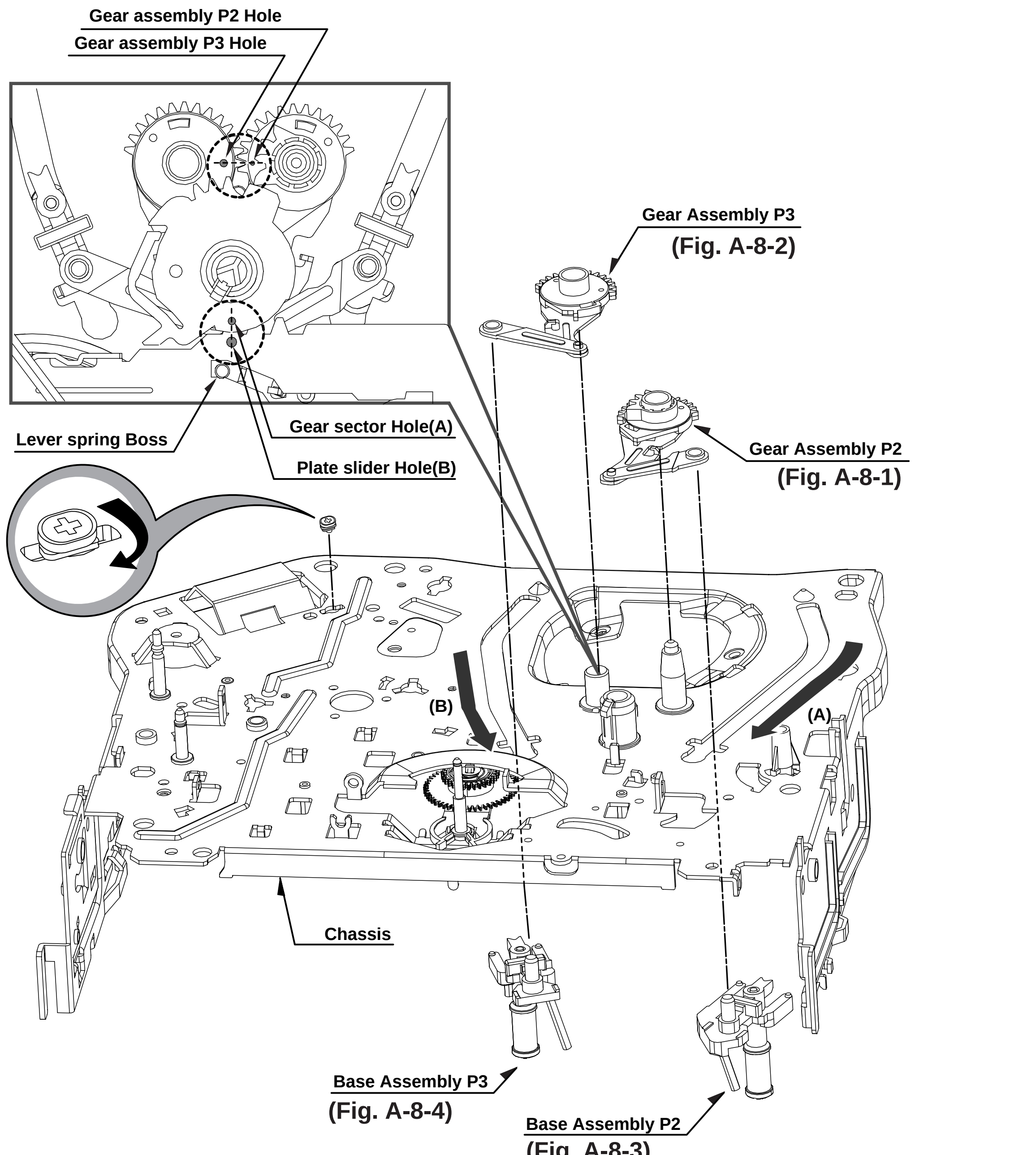


Fig. A-8

29. Gear assembly P2 (Fig. A-8-1)/ Gear assembly P3 (Fig. A-8-2)/

1) Just lift the Gear assembly P2 up.
2) Just lift the Gear assembly P3 up.

NOTE

When reassembling, align the two Holes of the Gear assembly P2 and P3 in a straight line after confirmation whether the Gear Sector Hole(A) and the Plate Slider Hole(B) are aligned or not as Fig.

30. Base assembly P2 (Fig. A-8-3)/ Base assembly P3 (Fig. A-8-4)

1) Move the Base assembly P2 in direction of arrow(A) along the Guided Hole of the Chassis and disassemble it on bottom side.
2) Move the Base assembly P3 in direction of arrow(B) along the Guided Hole of the Chassis and disassemble it on bottom side.

Place the Mechanism face down, or return to original position.

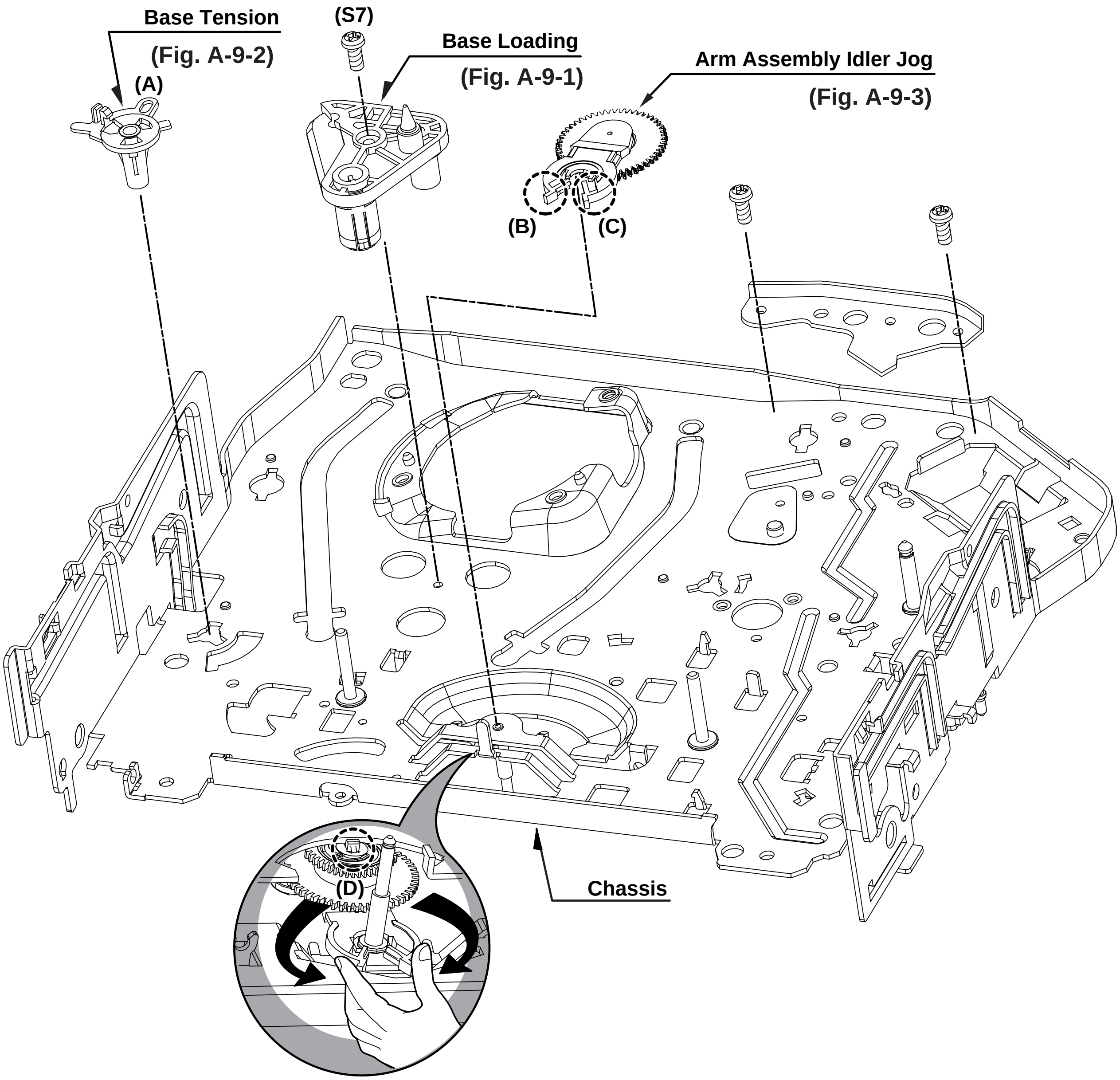


Fig. A-9

31. Base Loading (Fig. A-9-1)

1) Remove the Screw(S7).
2) Lift the Base Loading up.

32. Base Tension (Fig. A-9-2)

1) Breakaway the (A) portion of the Base Tension from the Embossing of the Chassis.
2) Turn the Base Tension to counterclockwise direction and lift it up.

33. Arm assembly Idler (Fig. A-9-3)

1) Make narrower the two parts, (A) and (B), as Fig. A-9-3.
2) Lift the Arm assembly Idler up.

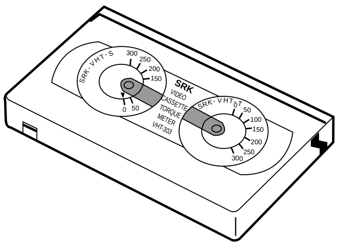
NOTE

When disassembling, be careful not to be caught the (D) part by the Chassis as Fig.

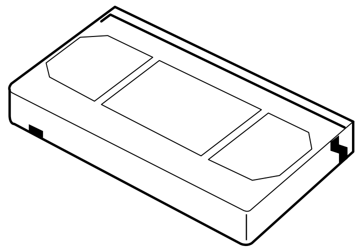
DECK MECHANISM ADJUSTMENT

• Tools and Fixfures for Service

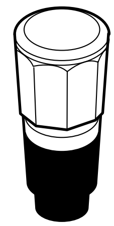
1. Cassette Torque meter
PUJ42881



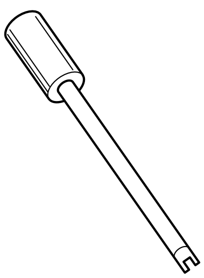
2. Alignment tape
MHPE



3. Torque gauge
PUJ48075-2



4. Post height adjusting driver
(Roller driver)
PTU94002



DECK MECHANISM ADJUSTMENT

1.Mechanism Alignment Position Check

Purpose:To determine if the Mechanism is in the correct position, when a Tape is ejected.

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Check Point
• Blank tape	• Eject Mode (with Cassette ejected)	• Mechanism and Mode Switch Position

1) Turn the Power S/W on and eject the Cassette by pressing the Eject Button.
2) Remove the Top Cover and Plate Assembly Top, visually check if the Gear Cam Hole is aligned with the Chassis Hole as below Fig. C-2.
3) IF not, rotate the Shaft of the Loading Motor to either Clockwise or Counterclockwise until the Alignment is as below Fig. C-2.
4) Remove the Screw which fixes the Deck Mechanism and Main Frame and confirm if the Gear Cam is aligned with the Gear Drive as below Fig. C-1(A).
5) Confirm if the Mode S/W on the Main P.C.Board is aligned as below Fig. C-1(B).
6) Remount the Deck Mechanism on the Main P.C.Board and check each operation.

CHECK DIAGRAM

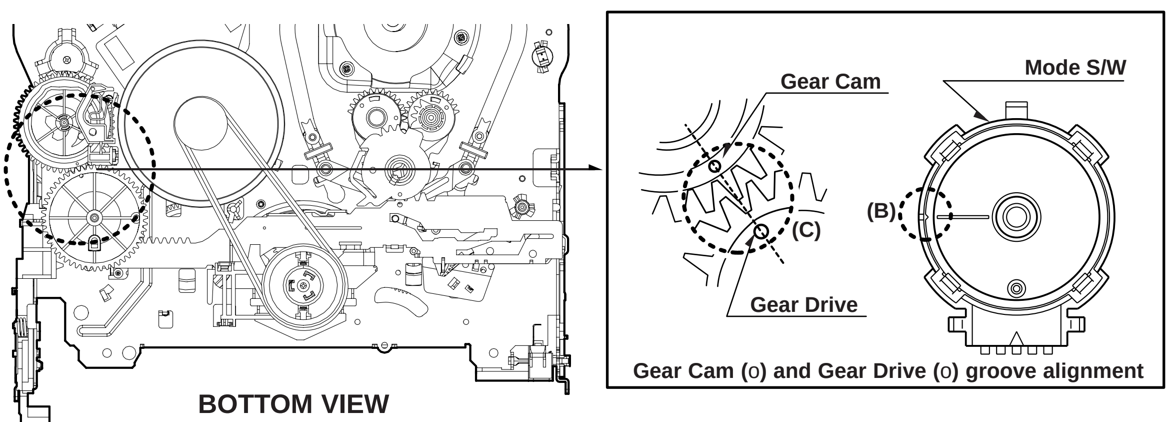


Fig. C-1

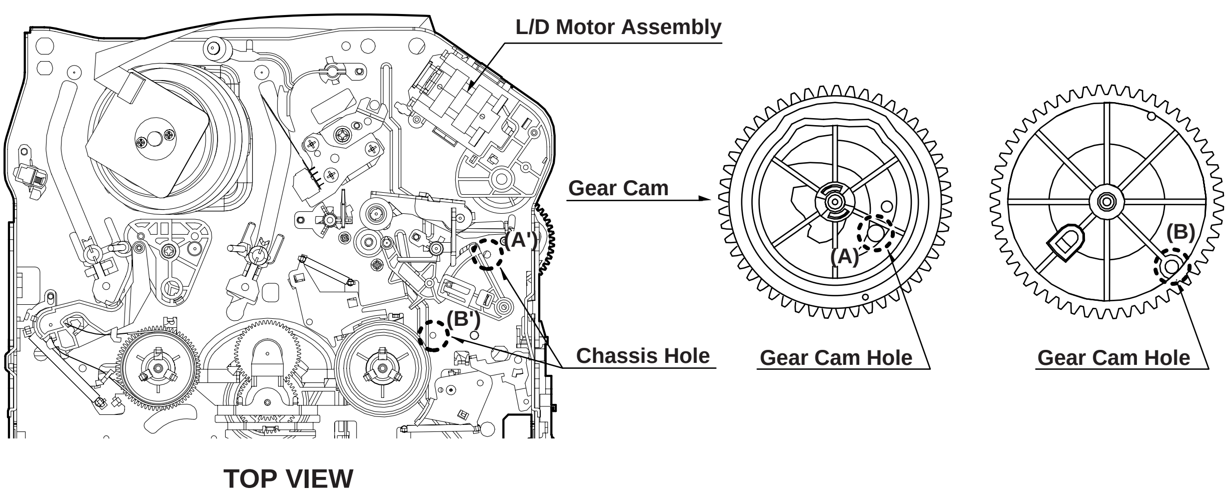


Fig. C-2

2. Preparation for Adjustment (To set the Deck Mechanism to the Loading state without inserting a Cassette Tape).

1) Unplug the Power Cord from the AC Outlet.
2) Disassemble the Top Cover and Plate Assembly Top.
3) Plug the Power Cord into the AC Outlet.
4) Turn the Power S/W on and push the Lever Stopper of the Holder Assembly CST to the back for Loading the Cassette without Tape.
Cover the Holes of the End Sensors at the both sides of the Bracket Side(L) and Bracket Assembly Door to prevent a light leak.
Then The Deck Mechanism drives to the Stop Mode.
In this case, The Deck Mechanism can accept inputs of each mode, however the Rewind and Review Operation can not be performed for more than a few seconds because the Take-up Reel Table is in the Stop State and can not be detected the Reel Pulses.

3. Checking Torque

Purpose: To insure smooth Transport of the Tape during each Mode of Operation. If the Tape Transport is abnormal, then check the Torque as indicated by the chart below.

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Checking Method
• Torque Gauge(600g/cm ATG) • Torque Gauge Adaptor • Cassette Torque Meter	• Play (FF) or Review (REW) Mode	• Perform each Deck Mechanism Mode without inserting a Cassette Tape(Refer to above No.2 Preparation for Adjustment). • Read the Measurement of the Take-up or Supply Reels on the Cassette Torque Meter(Fig. C-3-2). • Attach the Torque Gauge Adaptor to the Torque Gauge and then read the Value of it(Fig. C-3-1).

Item	Mode	Test Equipment	Measurement Reel	Measurement Values
Fast Forward Torque	Fast Forward	Cassette Torque Gauge	Take-Up Reel	More than 400g/cm
Rewind Torque	Rewind	Cassette Torque Gauge	Supply Reel	More than 400g/cm
Play Take-Up Torque	Play	Cassette Torque Meter	Take-Up Reel	40~100g/cm
Review Torque	Review	Cassette Torque Meter	Supply Reel	120~210g/cm

NOTE:

The Values are measured by using a Torque Gauge and Torque Gauge Adaptor with the Torque Gauge affixed.

NOTE:

The Torque reading to measure occurs when the Tape abruptly changes direction from Fast Forward of Rewind Mode, when quick bracking is applied to both Reels.

• Cassette Torque Meter

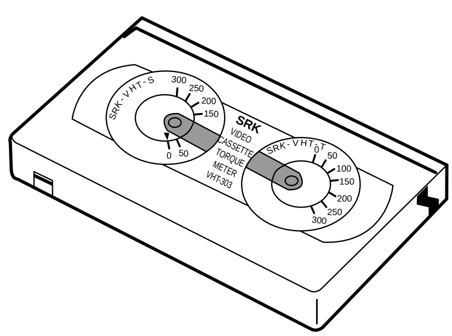


Fig. C-3-2

• Torque Gauge

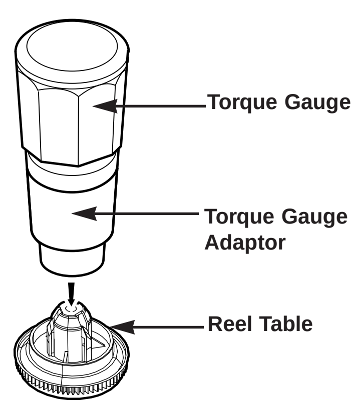


Fig. C-3-1

DECK MECHANISM ADJUSTMENT

4.Guide Roller Height Adjustment

Purpose: To regulate the Height of the Tape so that the Bottom of the Tape runs along the Tape Guide Line on the Lower Drum.

4-1. Preliminary Adjustment

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
• Post Height Adjusting Driver	• Play or Review Mode	• Guide Roller Height Adjustment screws on the Supply and Take-Up Guide Rollers.

Adjustment Procedure

1) Confirm if the Tape runs along the Tape Guide Line of the Lower Drum.
2) If the Tape runs the Bottom of the Guide Line, turn the Guide Roller Height Adjustment Screw to Clockwise direction.
3) If it runs the Top, turn to Counterclockwise direction.
4) Adjust the Height of the Guide Roller to be guided to the Guide Line of the Lower Drum from the Starting and Ending Point of the Drum.

ADJUSTMENT DIAGRAM

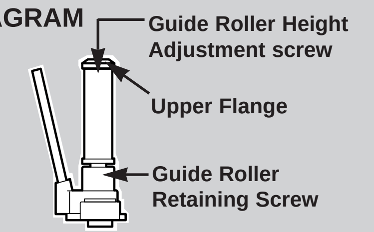


Fig. C-4-1

4-2. Precise Adjustment

Test Equipment/Fixture	Test Equipment Connection Points	Test Conditions VCR(VCP) State	Adjustment Point
• Oscilloscope • Alignment Tape • Post Height Adjusting Driver	• CH-1:PB RF Envelope • CH-2:NTSC: SW 30Hz PAL: SW 25Hz • Head Switching Output Point • RF Envelope Output Point	• Play an Alignment Tape	• Guide Roller Height Adjustment Screws

Adjustment Procedure

1) Play an Alignment Tape after connecting the Probe of the Oscilloscope to the RF Envelope Output Test Point and Head Switching Output Test Point.
2) Tracking Control(in PB Mode) : Center Position(When this Adjustment is performed after the Drum Assembly has been replaced, set the Tracking Control so that the RF Output is Maximum).
3) Height Adjustment Screw : Flatten the RF Waveform. (Fig. C-4-2)
4) Turn(Move) the Tracking Control(in PB Mode) Clockwise and Counterclockwise.(Fig. C-4-3)
5) Check that any Drop of RF Output is uniform at the Start and End of the Waveform.

NOTE

If the adjustment is excessive or insufficient the tape will jam or fold.

Waveform Diagrams

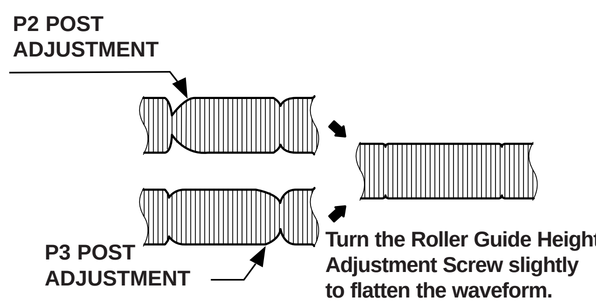


Fig. C-4-2

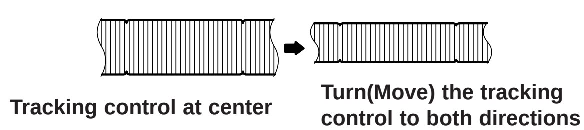
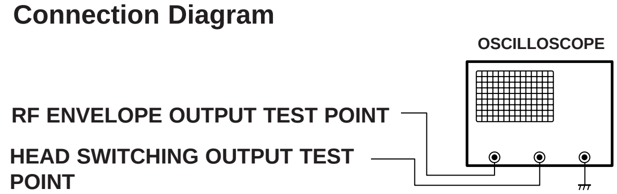


Fig. C-4-3

Connection Diagram



DECK MECHANISM ADJUSTMENT

5. Audio/Control (A/C) Head Adjustment

Purpose: To insure that the Tape passes accurately over the Audio and Control Tracks in exact Alignment in both the Record and Playback Modes.

5-1. Preliminary Adjustment (Height and Tilt Adjustment)
Perform the Preliminary Adjustment, when there is no Audio Output Signal with the Alignment Tape.

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
• Blank Tape • Screw Driver(+) Type 5mm	• Play the blank tape	• Tilt Adjustment Screw(C) • Height Adjustment Screw(B) • Azimuth Adjustment Screw(A)

Adjustment Procedure/Diagrams

1) Initially adjust the Base Assembly A/C Head as shown Fig. C-5-1 by using the Height Adjustment Screw(B).
2) Play a Blank Tape and observe if the Tape passes accurately over the A/C Head without Tape Curling or Folding.
3) If Folding or Curling is occured then adjust the Tilt Adjustment Screw(C) while the Tape is running to resemble Fig. C-5-3.
4) Reconfirm the Tape Path after Playback about 4~5 seconds.

NOTE

Ideal A/C head height occurs, when the tape runs between 0.2~0.25mm above the bottom edge of the A/C head core.

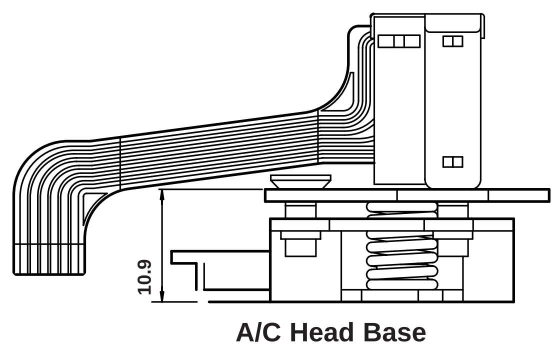


Fig. C-5-1

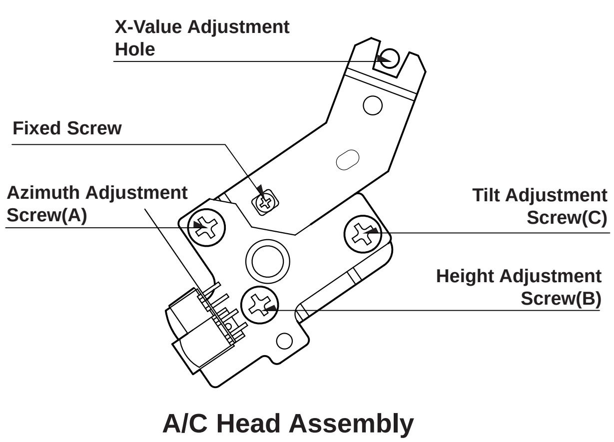


Fig. C-5-2

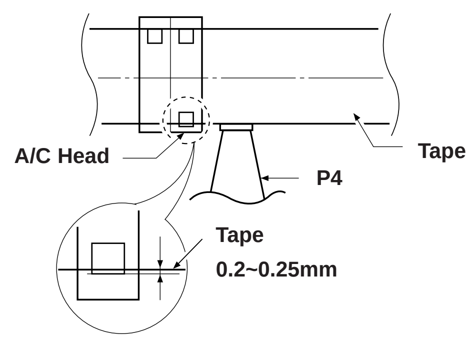


Fig. C-5-3

5-2. Confirm that the Tape passes smoothly between the Take-up Guide and Pinch Roller(using a Mirror or the naked eye).

1) After completing Step 5-1.(Preliminary Adjustment), check that the Tape passes around the Take-up Guide and Pinch Roller without Folding or Curling at the Top or Bottom.
   (1) If Folding or Curling is observed at the Bottom of the Take-up Guide then slowly turn the Tilt Adjustment Screw(C) in the Clockwise direction.
   (2) If Folding or Curling is observed at the Top of it then slowly turn the Tilt Adjustment Screw(C) in the Counterclockwise direction.

NOTE:

Check the RF Envelope after adjusting the A/C Head, if the RF Waveform differs from Fig. C-5-4, performs Precise Adjustment to flat the RF Waveform.

5-3. Precise Adjustment (Azimuth adjustment)

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
• Oscilloscope • Alignment Tape(SP) • Screw Driver(+) Type 5mm	• Audio output jack	• Play an Alignment Tape 6KHz Section	• Azimuth Adjustment Screw(A) • Height Adjustment Screw(B)

Adjustment Procedure

1) Connect the Probe of the Oscilloscope to Audio Output Jack.
2) Alternately adjust the Azimuth Adjustment Screw(A) and the Tilt Adjustment Screw(C) for Maximum Output of the 6Khz segment.

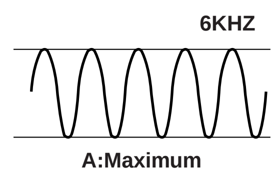
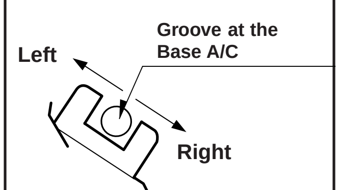


Fig. C-5-4

6. X-Value Adjustment

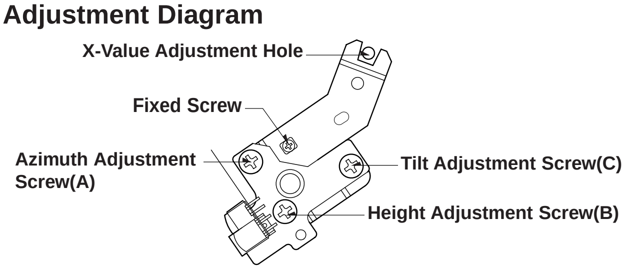
Purpose: To obtain compatibility with other VCR(VCP) Models.

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
• Oscilloscope • Alignment tape(SP only) • Screw Driver(+) Type 5mm	• CH-1: PB RF Envelope • CH-2: NTSC: SW 30Hz PAL: SW 25Hz • Head Switching Output Test Point • RF Envelope Output Test Point	• Play an Alignment Tape	

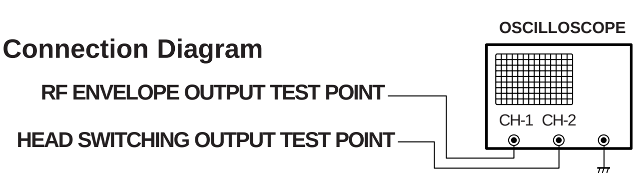
Adjustment Procedure

1) Release the Automatic Tracking to run long enough for Tracking to complete it's Cycle.
2) Loosen the Fixed Mounting Screw and move the Base Assembly A/C Head in the direction as shown in the Diagram to find the center of the peak that allows for the maximum Waveform Envelope.
   This method should allow the 31um Head to be centrally located over the 58um Tape Track.
3) Tighten the Base Assembly A/C Head mounting Screw.

Adjustment Diagram



Connection Diagram



7. Adjustment after Replacing Drum Assembly (Video Heads)

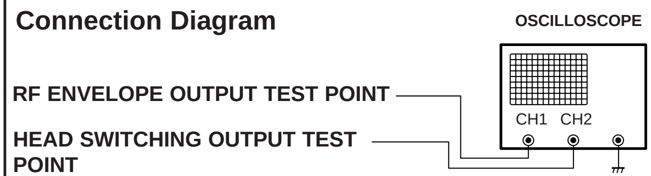
Purpose: To correct for shift in the Roller Guide and X value after replacing the Drum.

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Points
• Oscilloscope • Alignment tapes • Blank Tape • Post Height Adjusting Driver • Screw Driver(+) Type 5mm	• CH-1: PB RF Envelope • CH-2: NTSC: SW 30Hz PAL: SW 25Hz • Head Switching Output Test Point • RF Envelope Output Test Point	• Play the blank tape • Play an alignment tape	• Guide Roller Precise Adjustment • Switching Point • Tracking Preset • X-Value

Checking/Adjustment Procedure

Play a blank tape and check for tape curling or creasing around the roller guide. If there is a problem then follow the procedure 4. "Guide Roller Height" and 5. "Audio Control(A/C) Head Adjustment".

Connection Diagram



Waveform

V1/V MAX ≦ 0.7
V2/V MAX ≦ 0.8
RF ENVELOPE OUTPUT

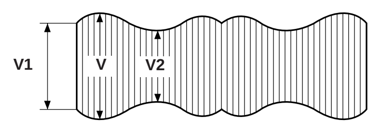


Fig. C-7

8. Check the Tape Travel after Reassembling Deck Assembly.

8-1.Check Audio and RF Locking Time during playback and after CUE or REV (FF/REW)

Test Equipment/ Fixture	Specification	Connection Points	Test Conditions (Mechanism Condition)
• Oscilloscope • Alignment tapes(with 6H 3kHz Color Bar Signal) • Stop Watch	• RF Locking Time: Less than 5 sec. • Audio Locking Time:Less than 10sec	• CH-1: PB RF Envelope • CH-2: Audio Output • RF Envelope Output Point • Audio Output Jack	• Play an alignment tape (with 6H 3kHz Color Bar Signal)

Checking Procedure

Play an alignment tape then change the operating mode to CUE or REV and confirm if the unit meets the above listed specifications.

NOTES:

1) CUE is fast forward mode (FF)
2) REV is the rewind mode (REW)
3) Referenced to the Play mode

8-2.Check for tape curling or jamming

Test Equipment/ Fixture	Specification	Test Conditions (Mechanism Condition)
• T-160 Tape • T-120 Tape	• Be sure there is no tape jamming or curling at the begining, middle or end of the tape.	• Run the CUE, REV play mode at the beginning and the end of the tape.

Checking Procedure

1) Confirm that the tape runs smoothly around the roller guides, drum and A/C head assemblies while abruptly changing operating modes from Play to CUE or REV. This is to be checked at the begining, middle and end sections of the cassette.
2) Confirm that the tape passes over the A/C head assembly as indicated by proper audio reproduction and proper tape counter performance.

1 Check before starting repairs

The following faults can be remedied by cleaning and oiling. Check the needed lubrication and the conditions of cleanliness in the unit.
Check with the customer to find out how often the unit is used, and then determine that the unit is ready for inspection and maintenance. Check the following parts.

Phenomenon	Inspection	Replacement
Color beats	Dirt on full-erase head	o
Poor S/N, no color	Dirt on video head	o
Vertical or Horizontal jitter	Dirt on video head Dirt on tape transport system	o
Low volume, Sound distorted	Dirt on Audio/control head	o
Tape does not run. Tape is slack	Dirt on pinch roller	o
In Review and Unloading (off mode), the Tape is rolled up loosely.	Clutch Assembly D33K Torque reduced	o
	Cleaning Drum and transport system	Fig. C-9-3

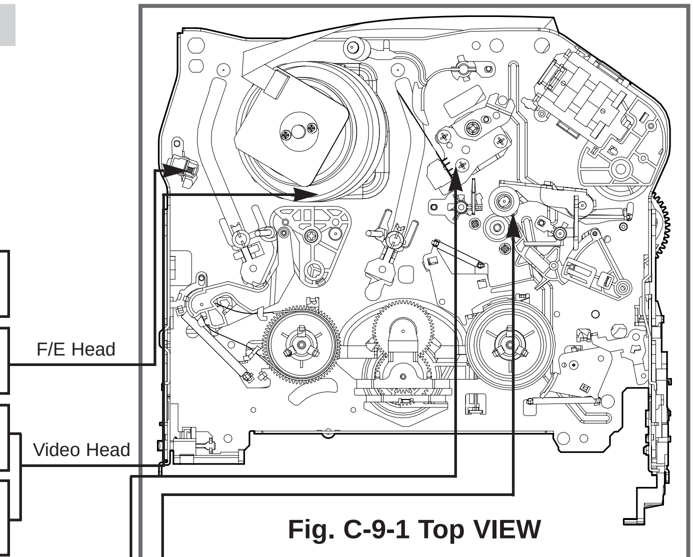


Fig. C-9-1 Top VIEW

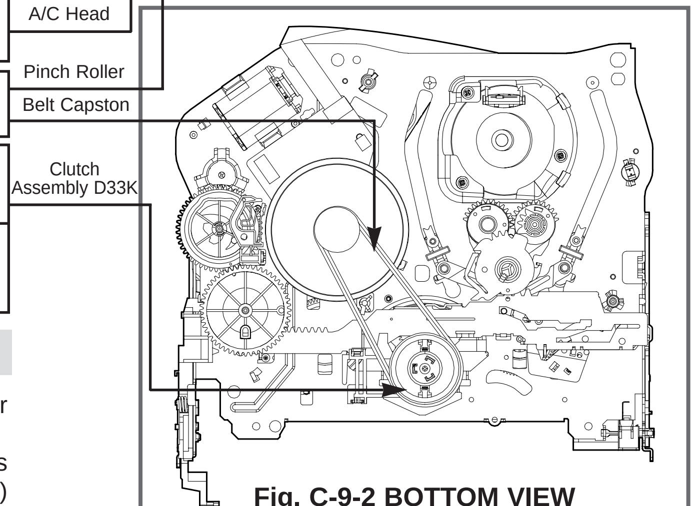


Fig. C-9-2 BOTTOM VIEW

NOTE

If locations marked with **o** do not operate normally after cleaning, check for wear and replace.
See the EXPLODED VIEWS at the end of this manual as well as the above illustrations See the Greasing (Page 4-22) for the sections to be lubricated and greased.

*** No. (1)~(13) Indicates the Tape Path to be traveled from Supply Reel to Take-up Reel.**

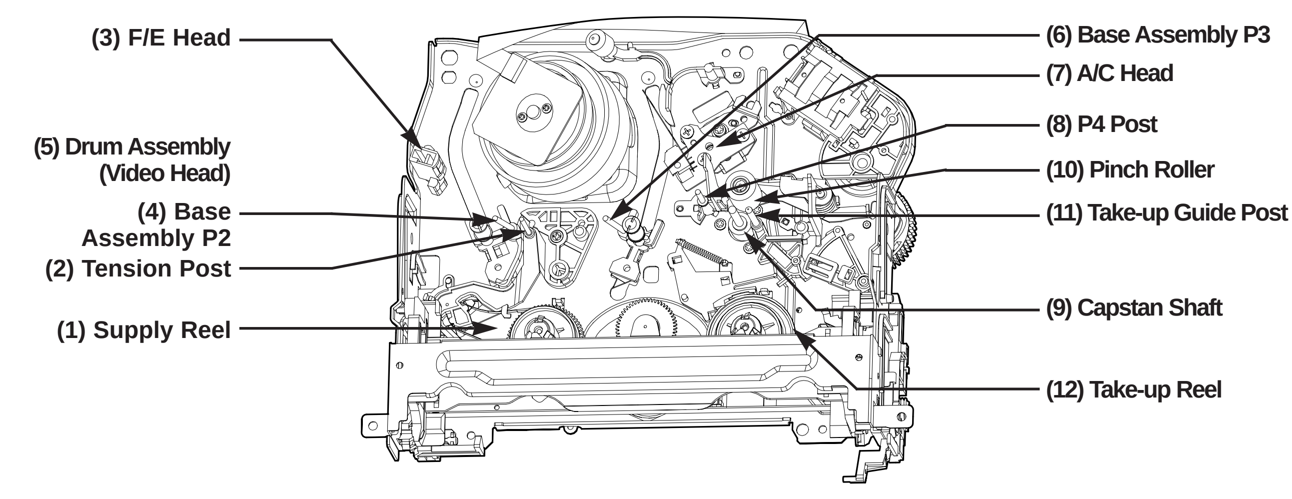


Fig. C-9-3 Tape Transport System

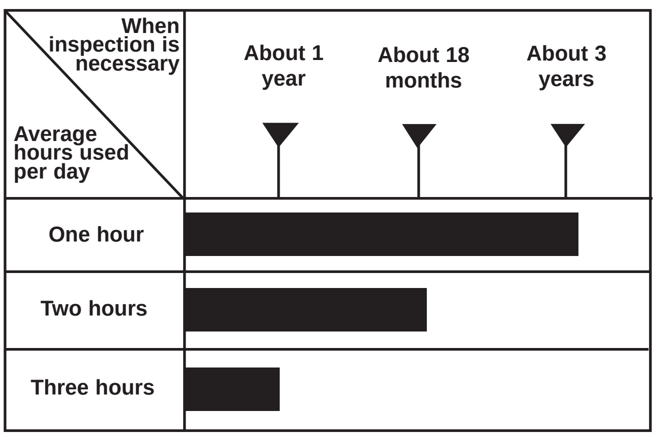
2. Required Maintenance

The recording density of a VCR(VCP) is much higher than that of an audio tape recorder. VCR(VCP) components must be very precise, at tolerances of 1/1000mm, to ensure compatiblity with other VCRs. If any of these components are worn or dirty, the symptoms will be the same as if the part is defective. To ensure a good picture, periodic inspection and maintenance, including replacement of worn out parts and lubrication, is necessary.

3. Scheduled Maintenance

Schedules for maintenance and inspection are not fixed because they vary greatly according to the way in which the customer uses the VCR(VCP), and the environment in which the VCR(VCP) is used.
But, in general home use, a good picture will be maintained if inspection and maintenance is made every 1,000 hours. The table below shows the relation between time used and inspection period.

Table 1



4. Supplies Required for Inspection and Maintence

(1) Grease : Kanto G-311G (Blue) or equivalent
(2) Isopropyl Alcohol or equivalent
(3) Cleaning Patches
(4) Grease : Kanto G-381(Yellow)

5) Maintenance Procedure
5-1) Cleaning

(1) Cleaning video head
First use a cleaning tape. If the dirt on the head is too stubborn to remove by tape, use the cleaning patch. Coat the cleaning patch with Isopropyl Alcohol. Touch the cleaning patch to the head tip and gently turn the head(rotating cylinder) right and left.
(Do not move the cleaning patch vertically. Make sure that only the buckskin on the cleaning patch comes into contact with the head. Otherwise, the head may be damaged.)
Thoroughly dry the head. Then run the test tape. If Isopropyl Alcohol remains on the video head, the tape may be damaged when it comes into contact with the head surface.

(2) Clean the tape transport system and drive system, etc, by wiping with a cleaning patch wetted with Isporopyl Alcohol.

NOTES:

① It is the tape transport system which comes into contact with the running tape. The drive system consists of those parts which moves the tape.

② Make sure that during cleaning you do not touch the tape transport system with the tip of a screw driver and no that force is that would cause deforming or damage applied to the system.

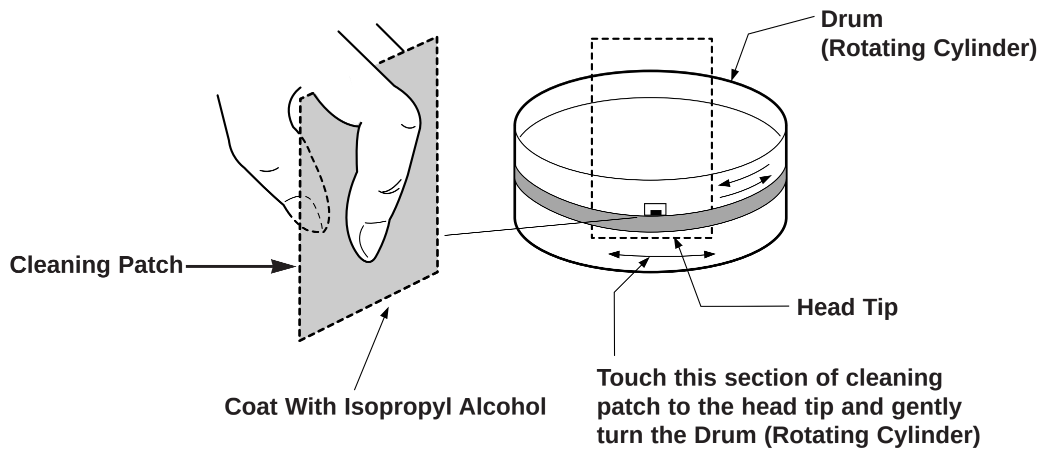


Fig. C-9-4

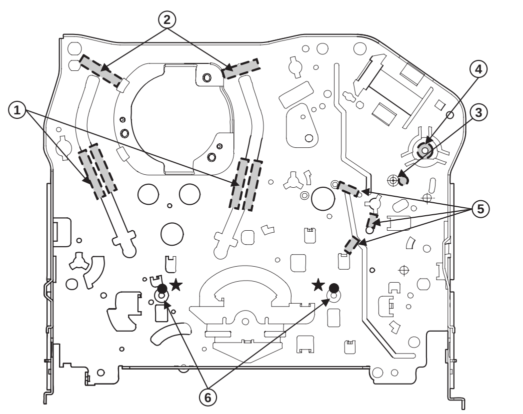
MAINTENANCE/INSPECTION PROCEDURE

5-2) Greasing

(1) Greasing guidelines
Apply grease, with a cleaning patch. Do not use excess grease. It may come into contact with the tape transport or drive system. Wipe any excess and clean with clean ing patch wetted in Isopropyl Alcohol.

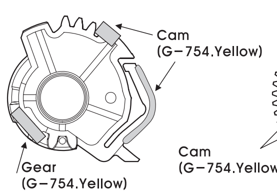
NOTE:Greasing Points

1) Loading Path Inside & Top side	6) Shaft
2) Base Tension Boss inside Hole	7) Arm Assembly F/L of Buming Inside Hole
3) Arm Assembly F/L "U" Groove	8) Reel S, T Shaft (G381:Yellow)
4) Arm Take-up Rubbing Section	9) Brake T Groove
5) L/D Motor Gear Wheel Part	

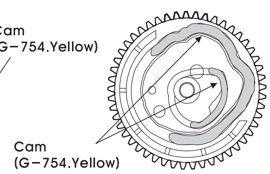


Chassis (Top)

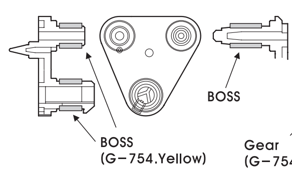
Gear Part



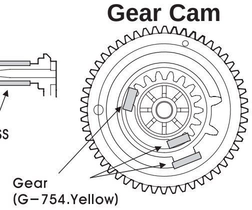
Gear Sector



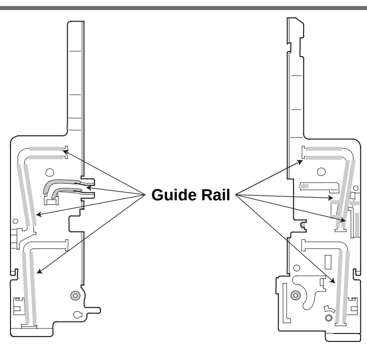
Gear Cam



Base Loading



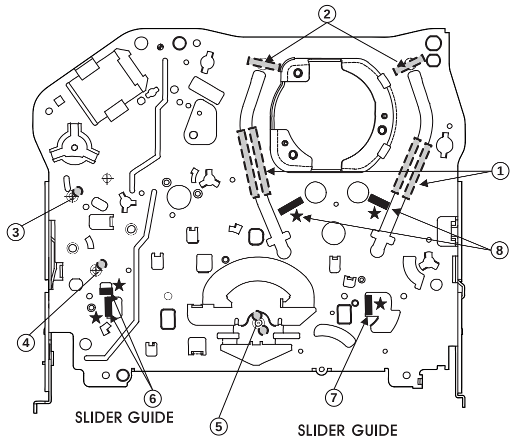
Gear Drive



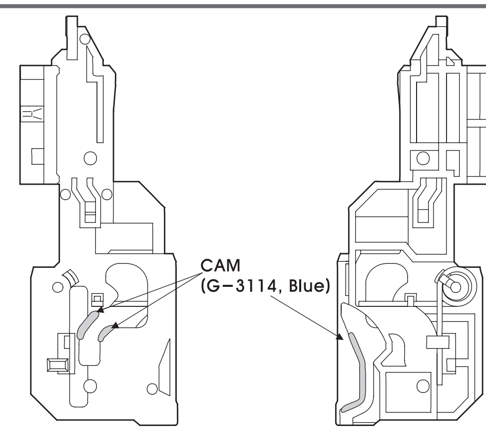
Bracket Side (L) Bracket Assembly Door

(2) Periodic greasing
Grease specified locations every 5,000 hours.

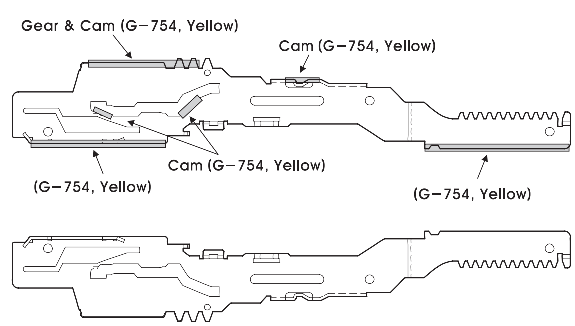
1) Loading Path Inside & Top side	5) Lever Tension Groove
2) Shaft	6) Clutch Assembly D33 Shaft
3) Gear Rack F/L Moving Section	7) Brake "S" Rubbing Section
4) Shaft	



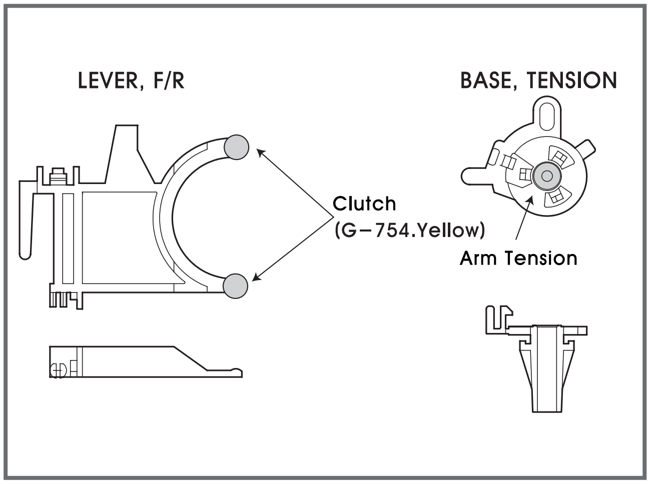
Chassis (Bottom)



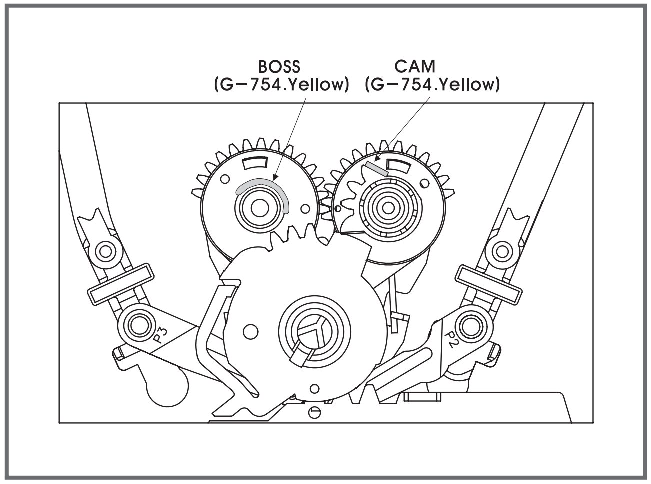
Guide Rack F/L Gear Rack F/L



GEAR , F/R



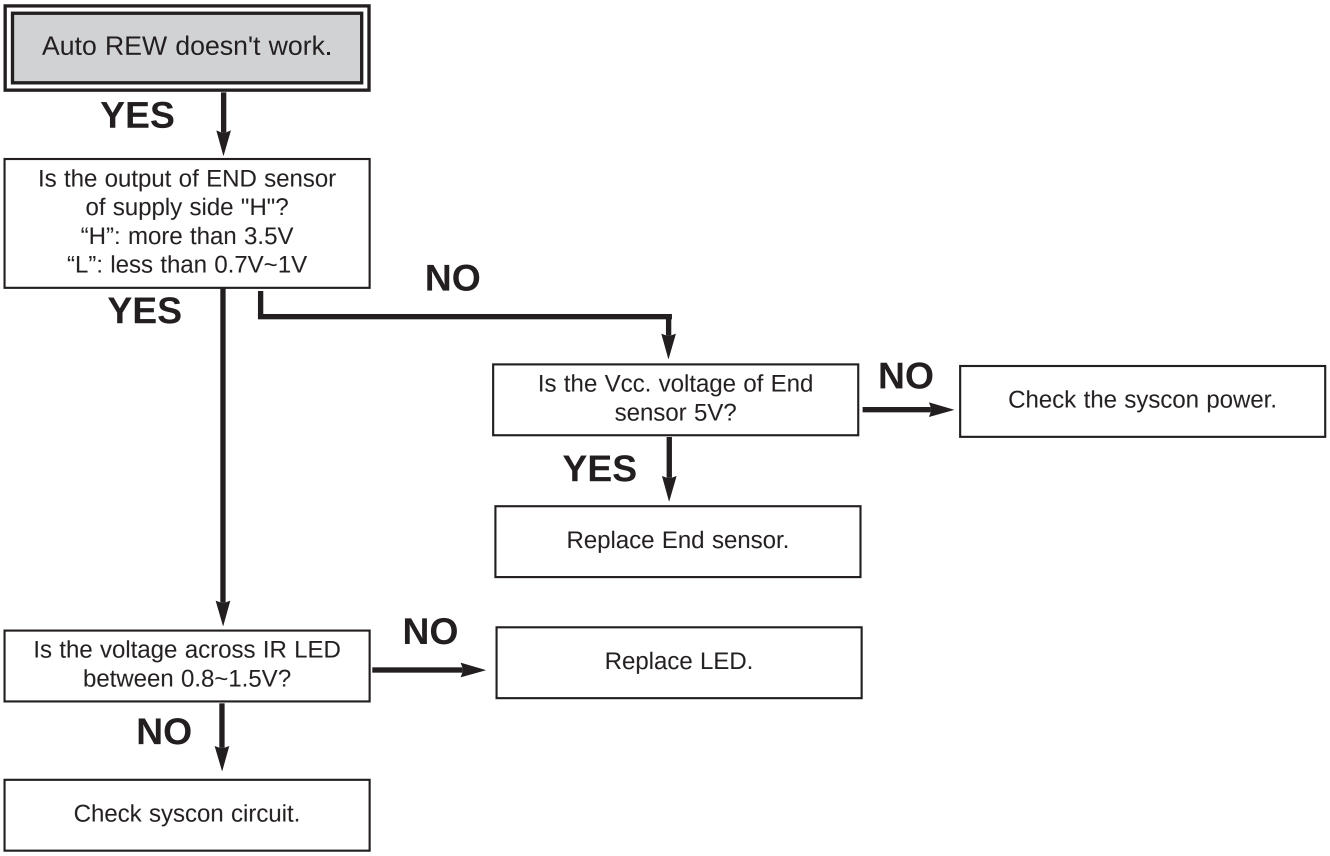
GEAR AY, P2 & P3



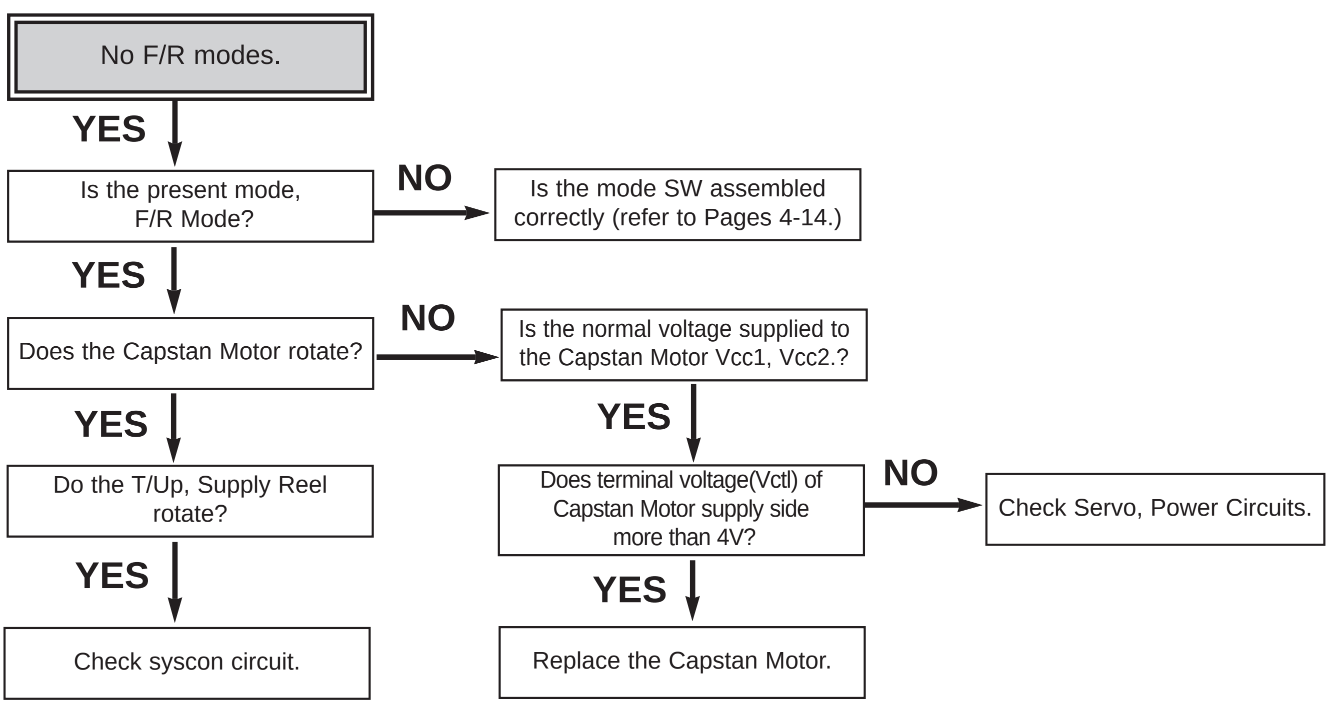
MECHANISM TROUBLESHOOTING GUIDE

1.Deck Mechanism

A.

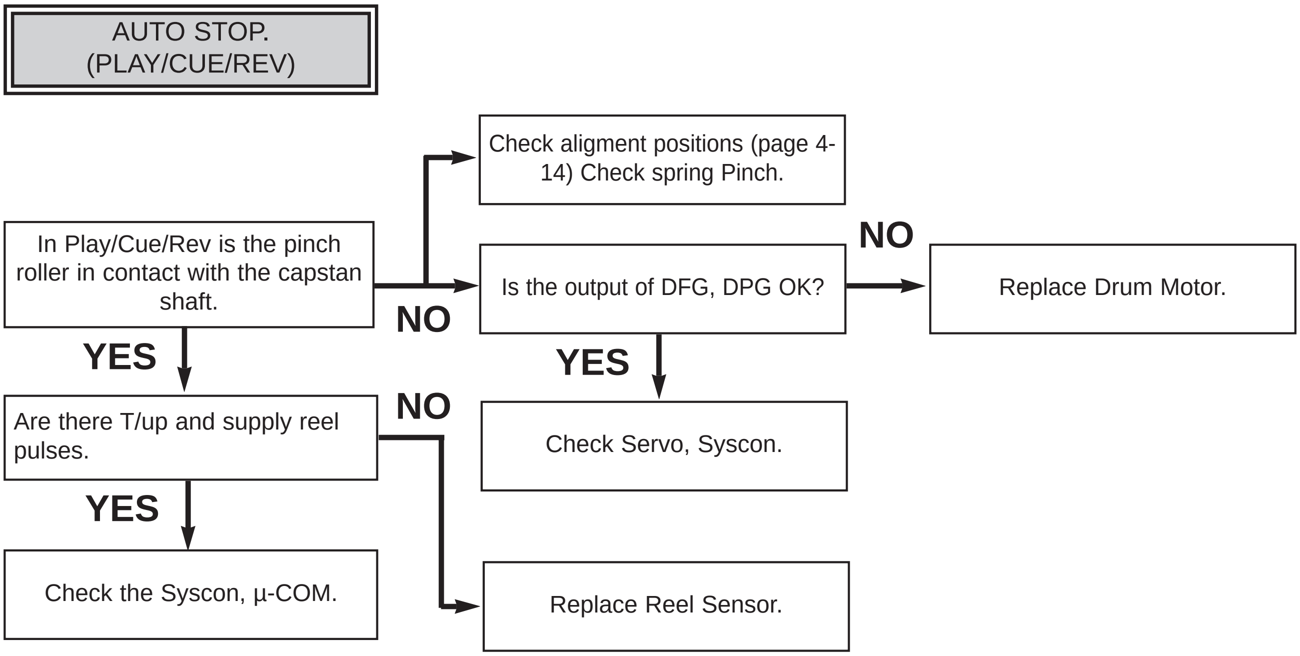


B.

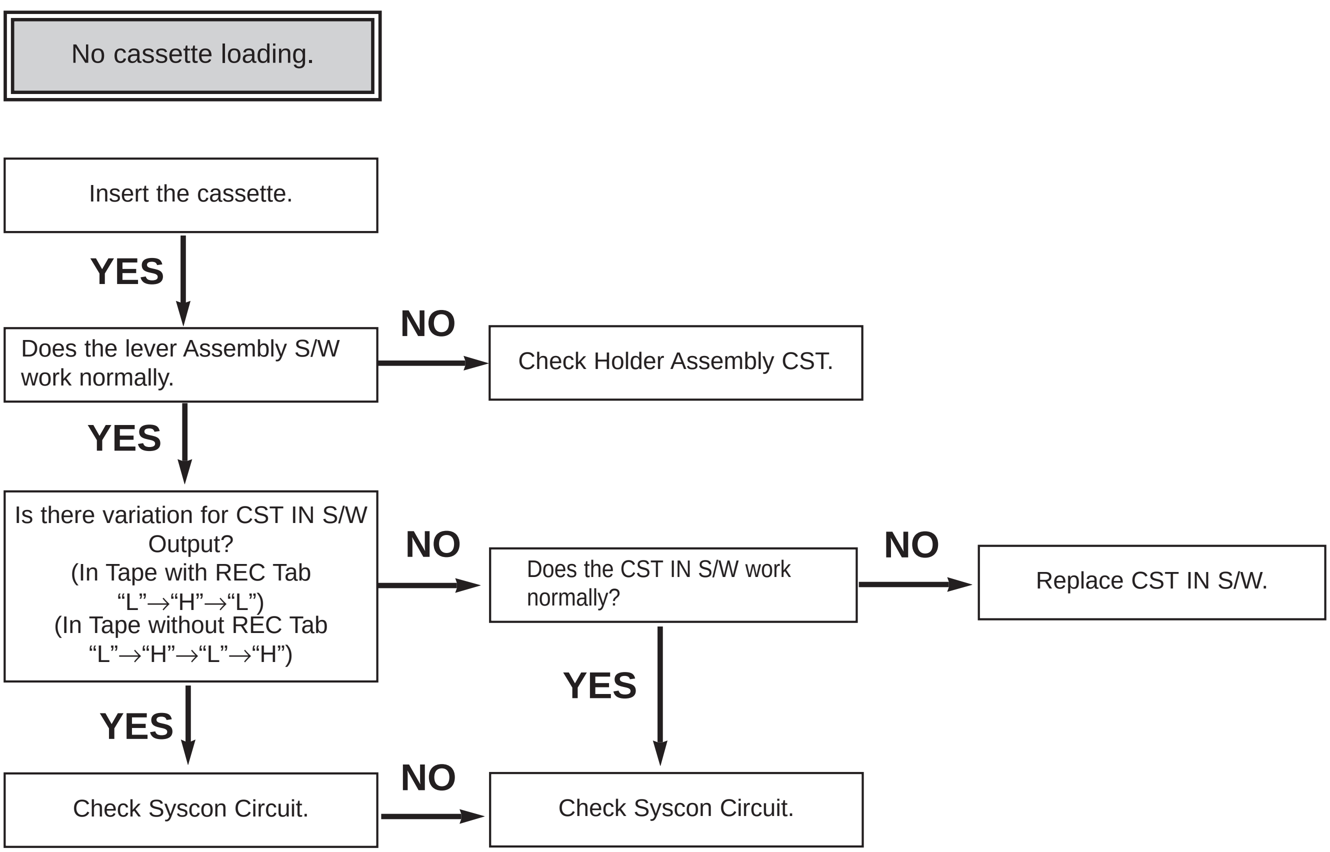


MECHANISM TROUBLESHOOTING GUIDE

C.

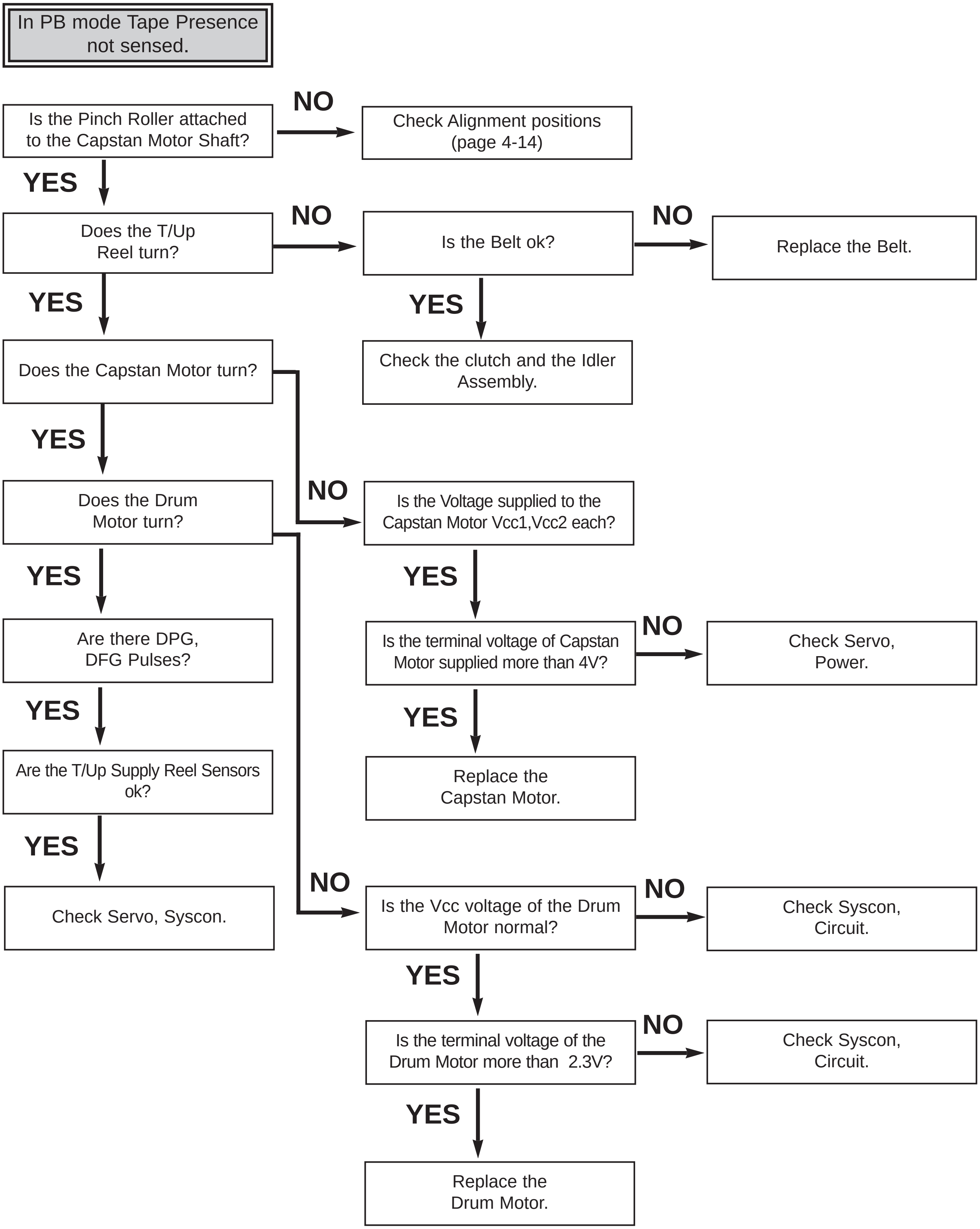


D.



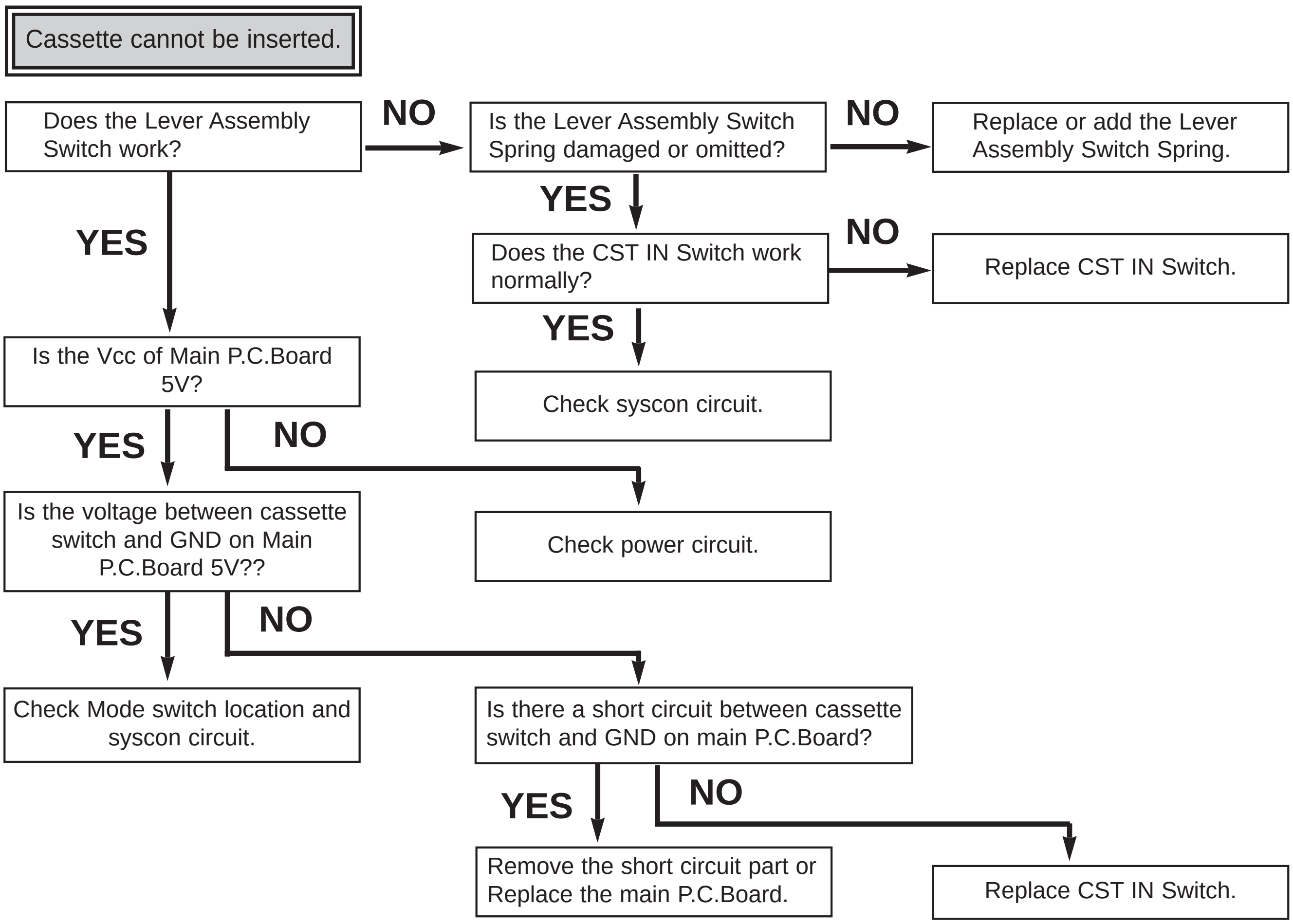
MECHANISM TROUBLESHOOTING GUIDE

E.

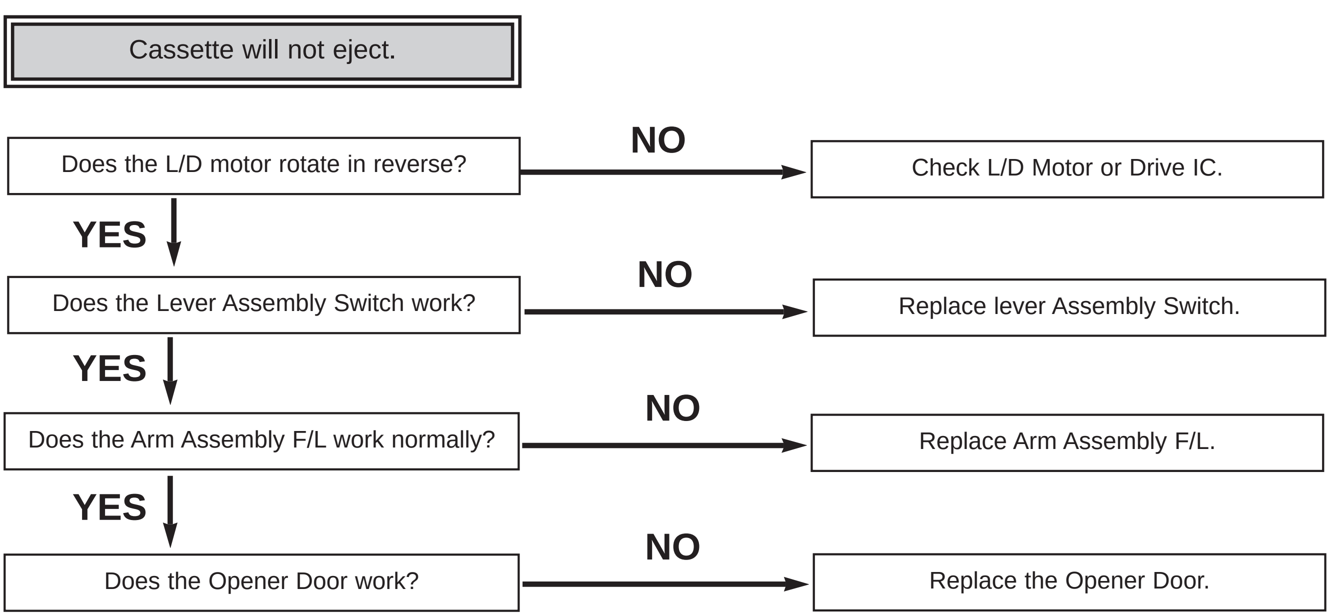


2. Front Loading Mechanism

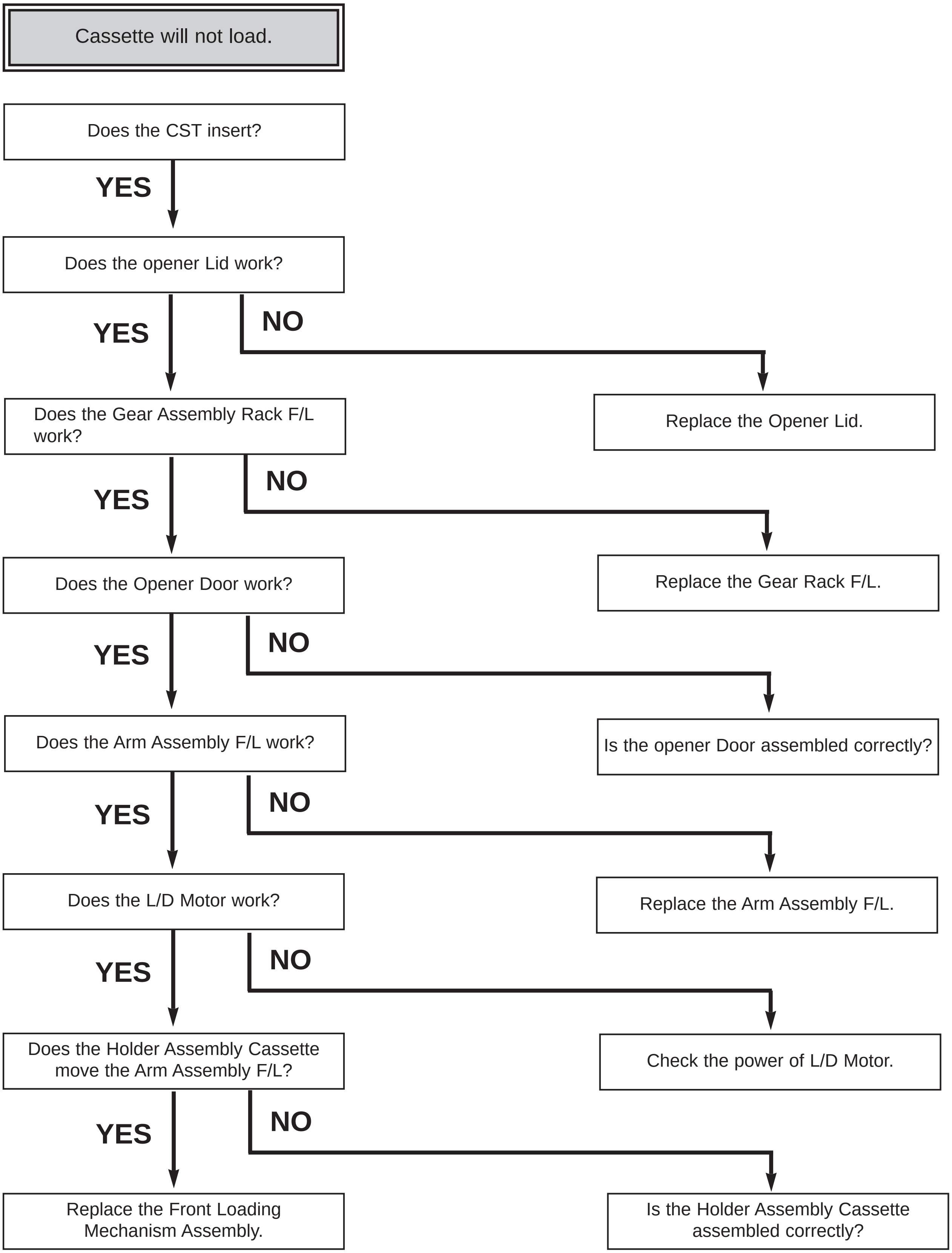
A.



B.

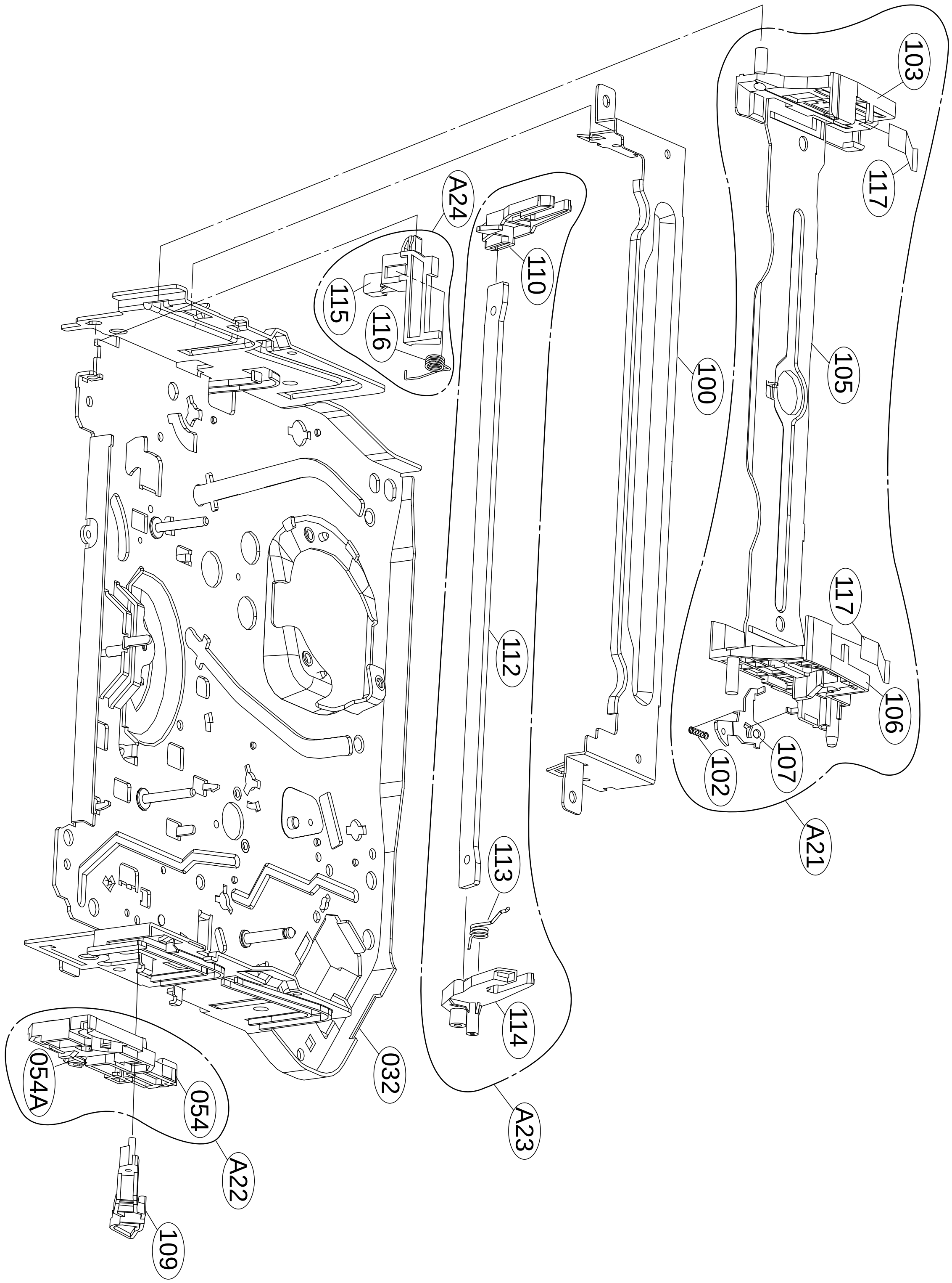


C.


Cassette will not load.
Does the CST insert?
YES
Does the opener Lid work?
YES
NO
Replace the Opener Lid.
Does the Gear Assembly Rack F/L work?
YES
NO
Replace the Gear Rack F/L.
Does the Opener Door work?
YES
NO
Is the opener Door assembled correctly?
Does the Arm Assembly F/L work?
YES
NO
Replace the Arm Assembly F/L.
Does the L/D Motor work?
YES
NO
Check the power of L/D Motor.
Does the Holder Assembly Cassette move the Arm Assembly F/L?
YES
NO
Replace the Front Loading Mechanism Assembly.
Is the Holder Assembly Cassette assembled correctly?

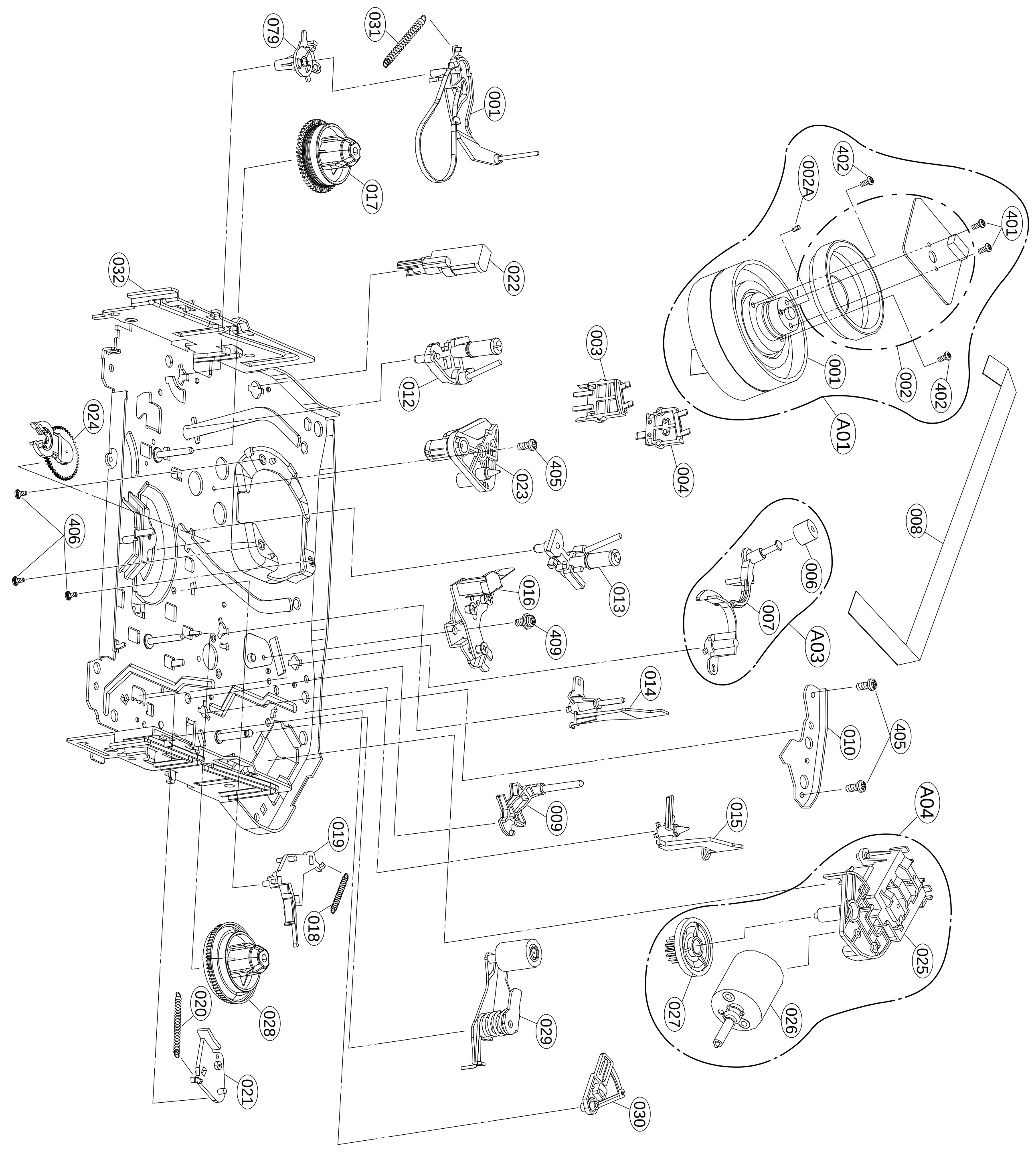
EXPLODED VIEWS

1. Front Loading Mechanism Section



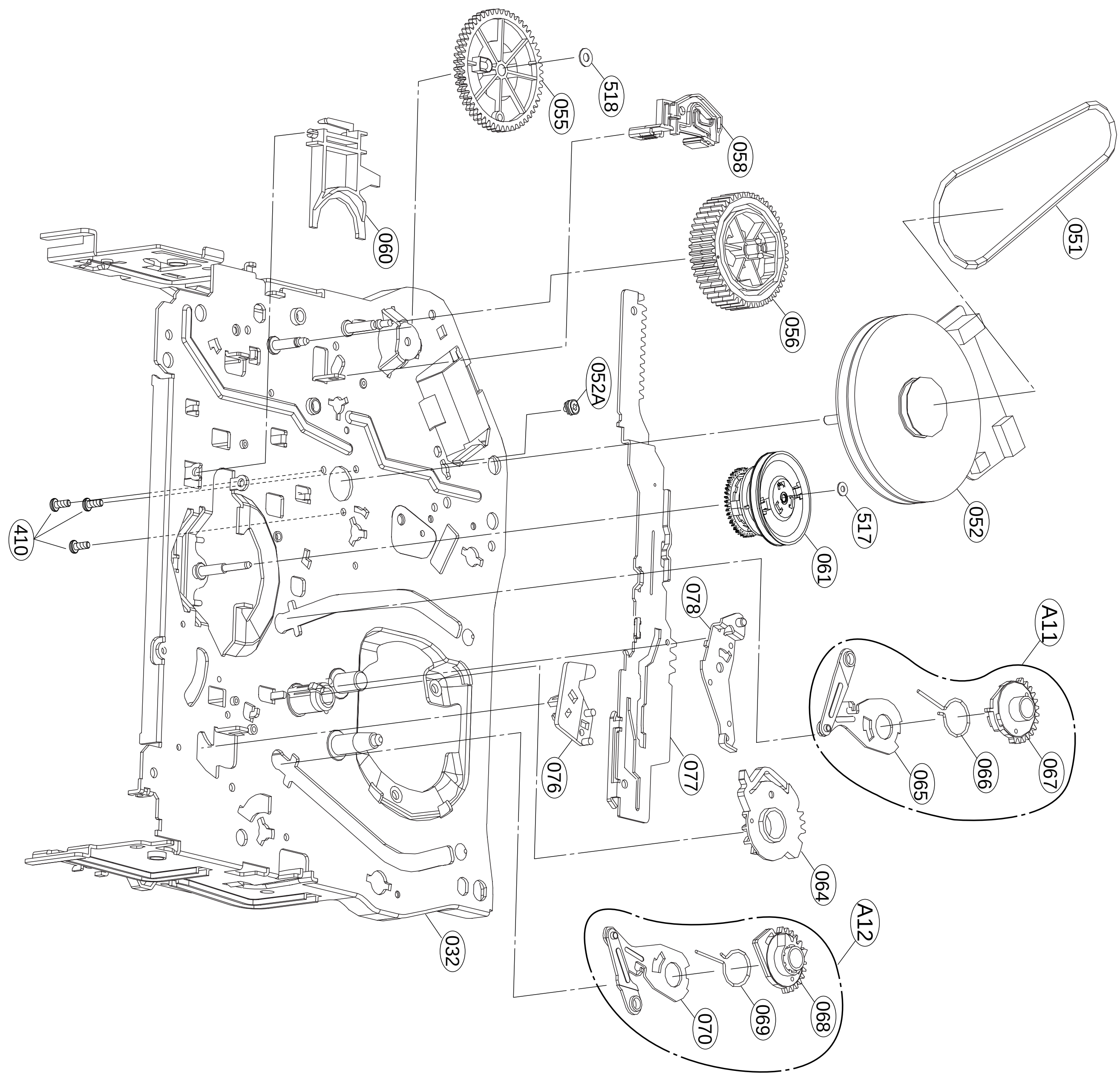
EXPLODED VIEWS

2. Moving Mechanism Section(1)



EXPLODED VIEWS

3. Moving Mechanism Section(2)



MEMO

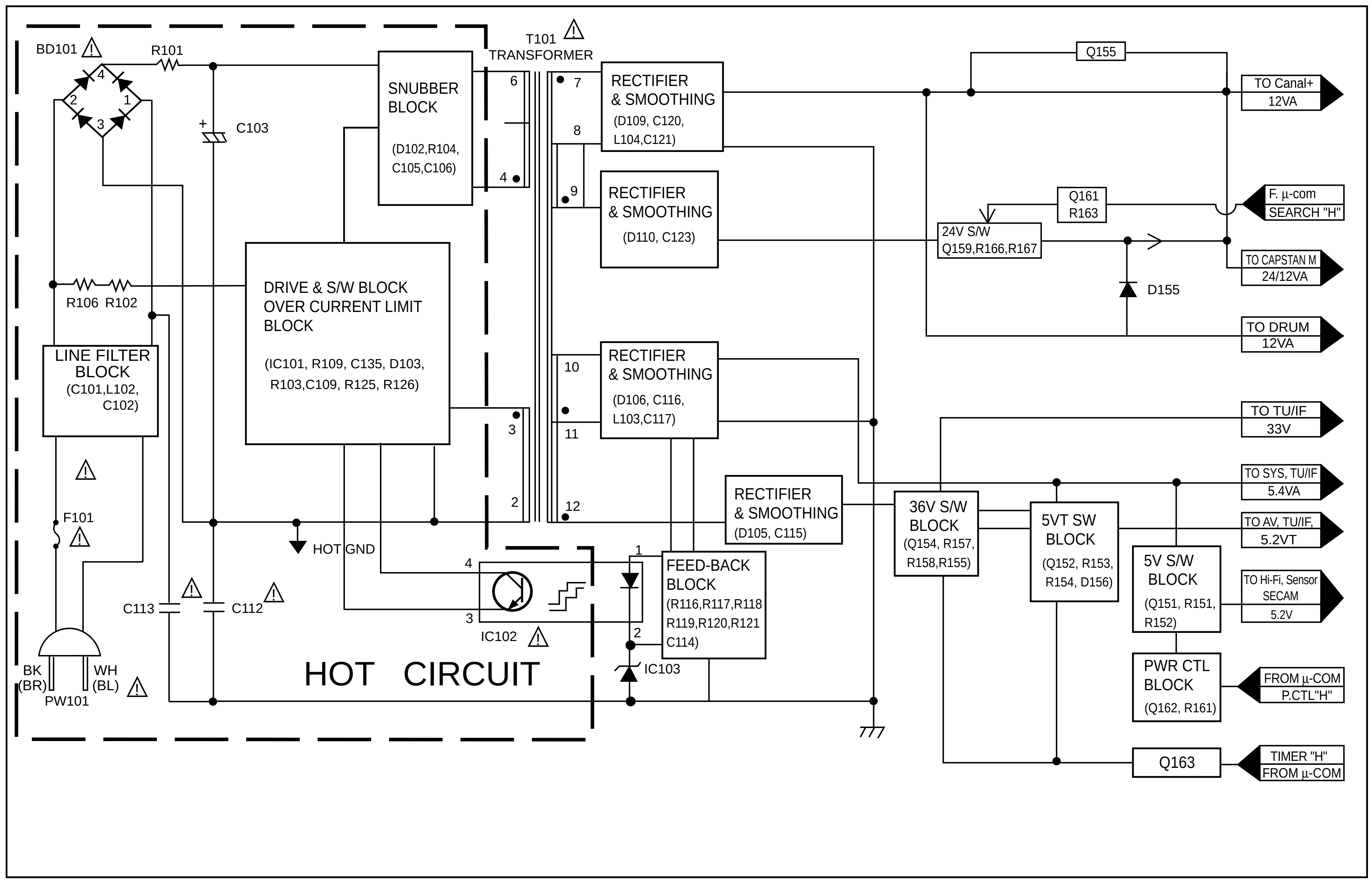
VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

S40894

Printed in Japan

BLOCK DIAGRAMS

1. Power Block Diagram

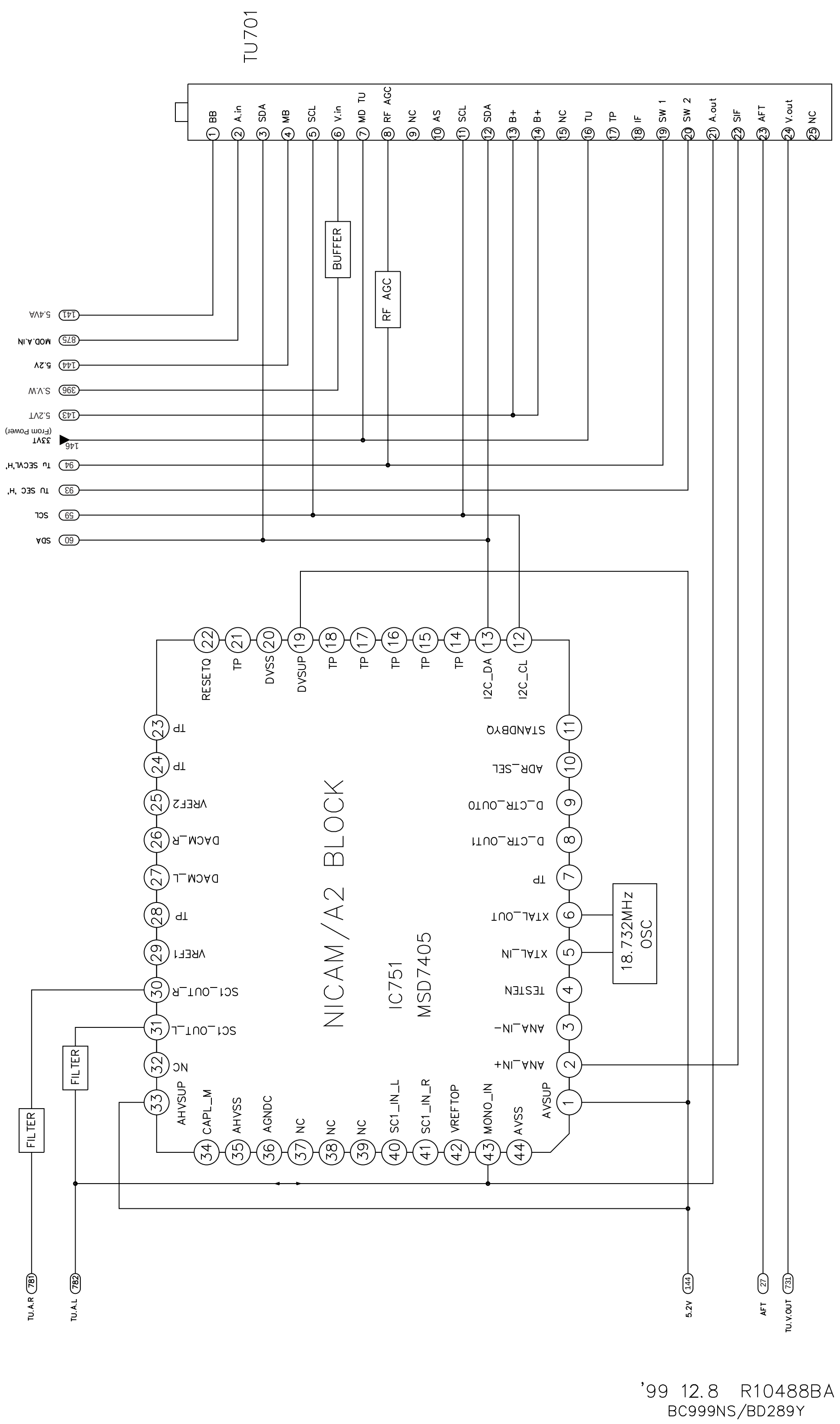


'00 11. 30

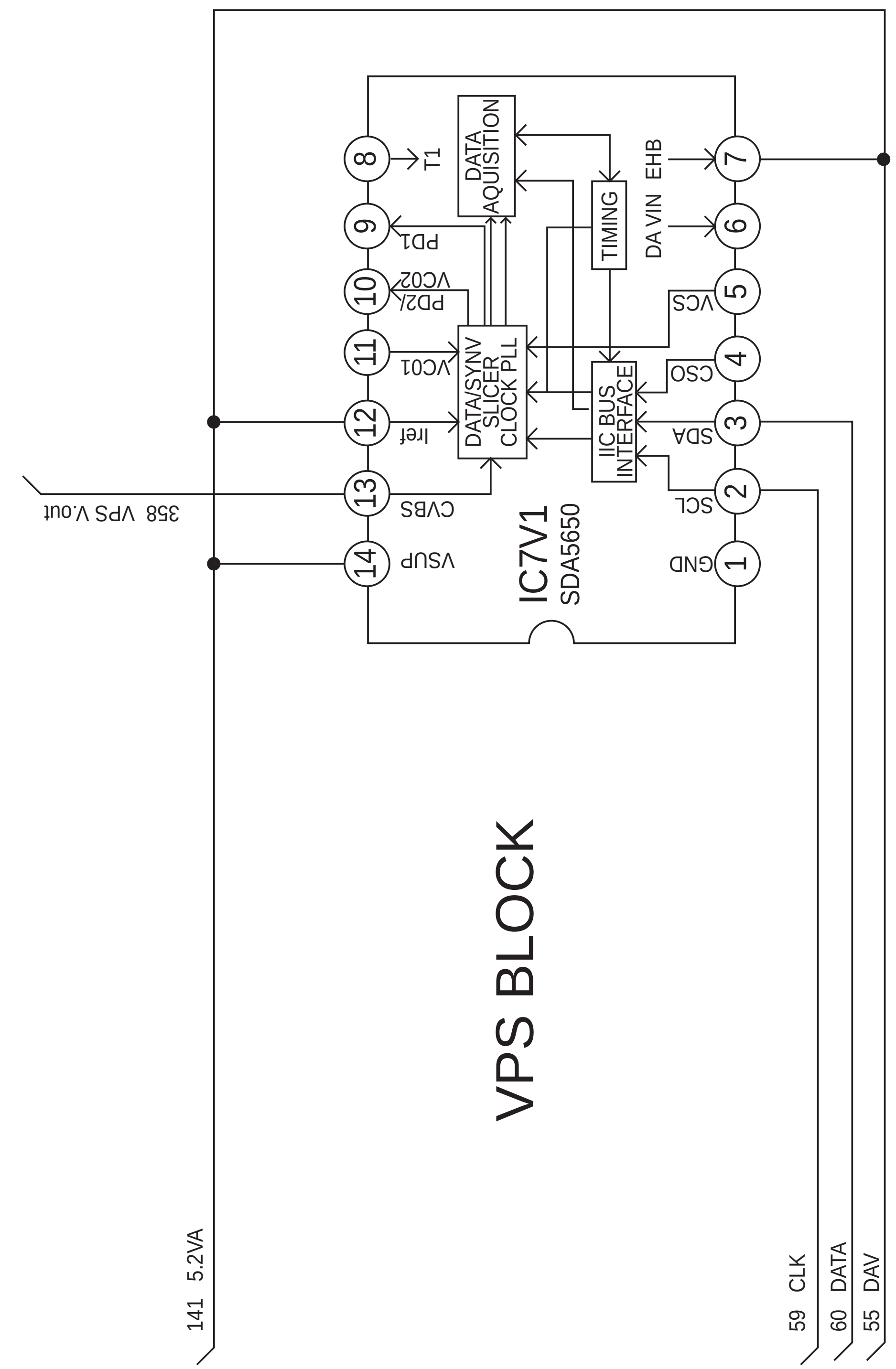
NOTES : ▼ Symbol denotes AC ground.

Symbol denotes DC chassis ground.

2. Tu/IF, NICAM & A2 Block Diagram

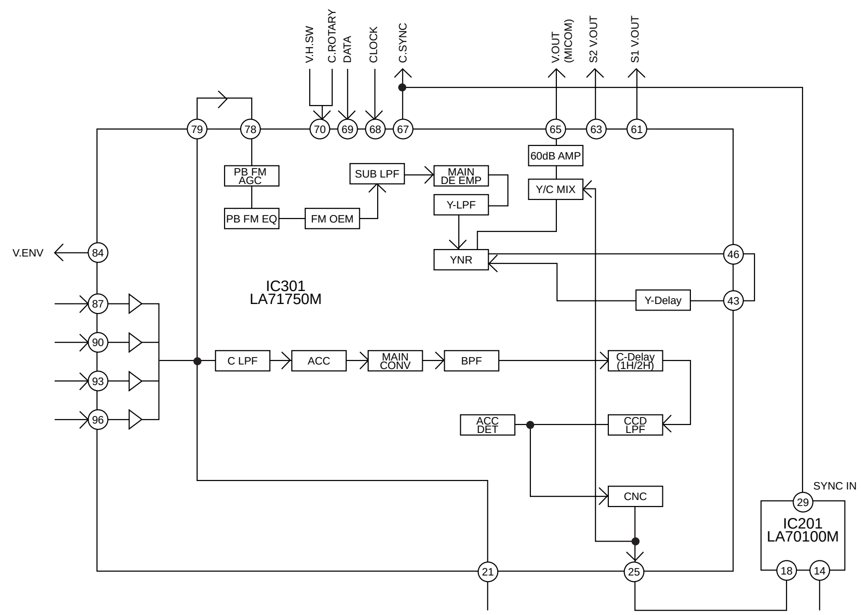


3. VPS Block Diagram

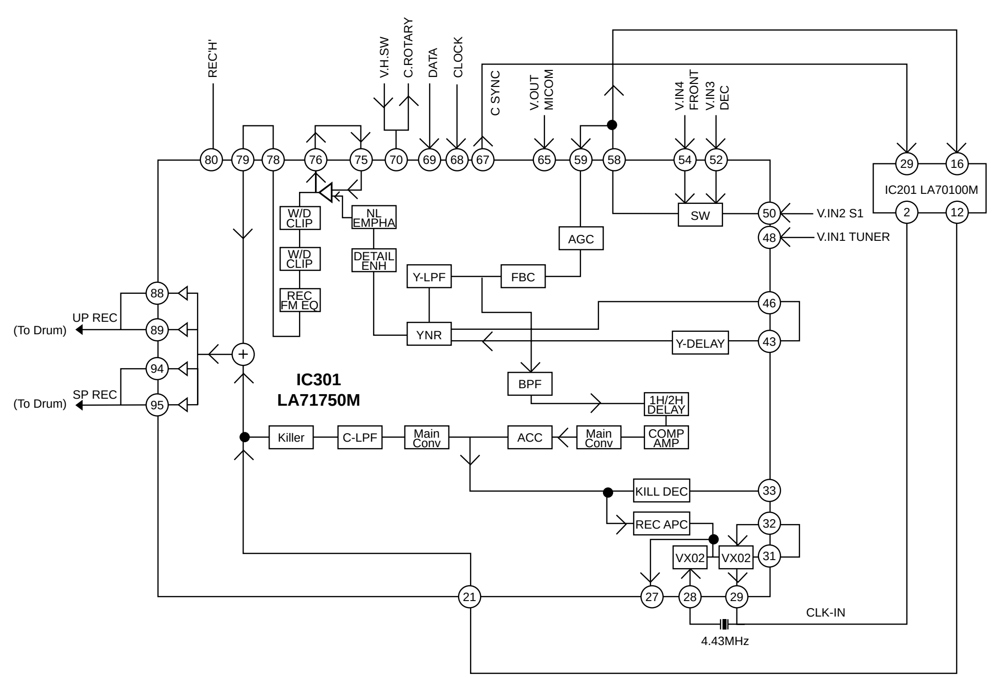


4. Y/C Block Diagram

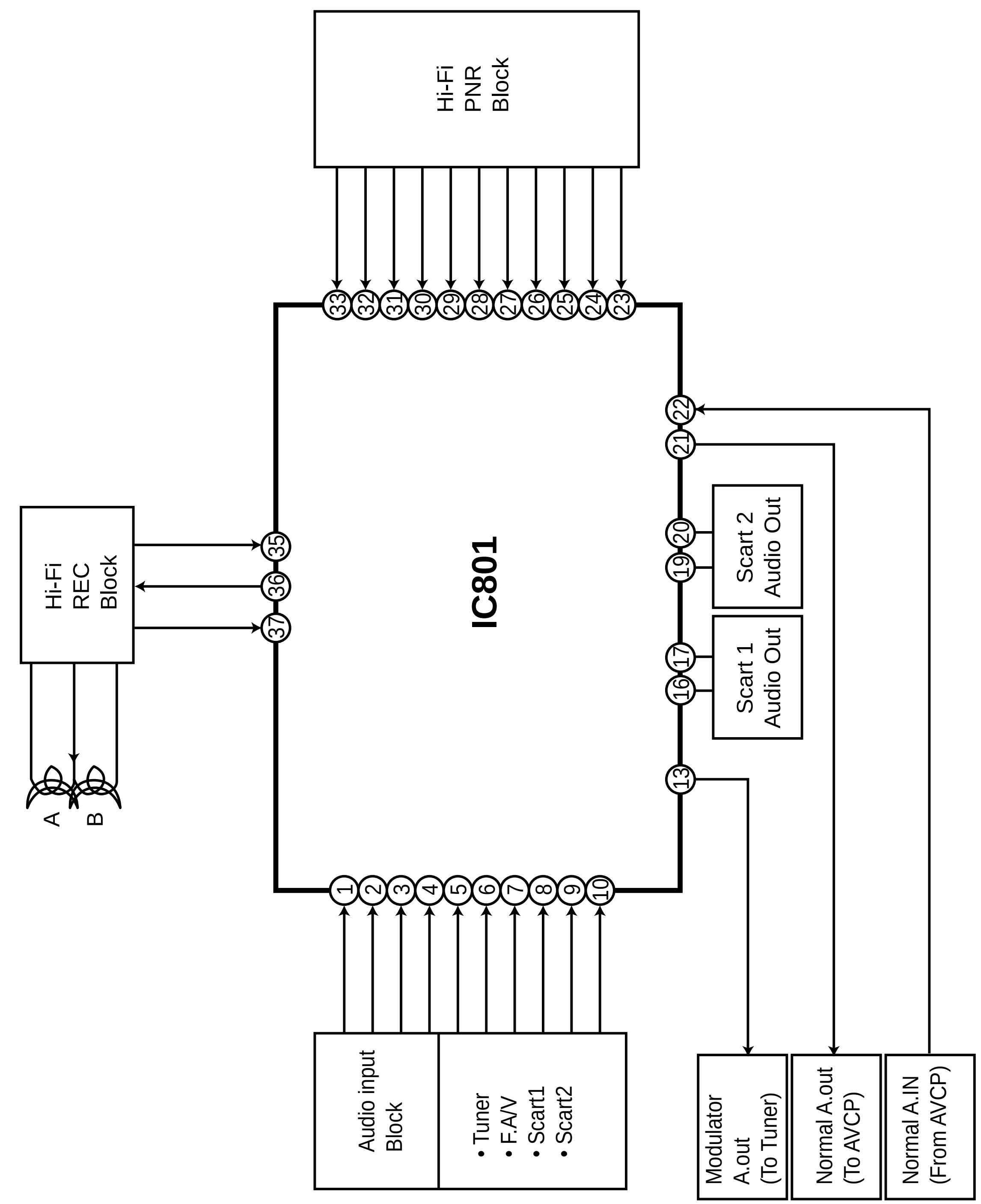
(PB MODE)



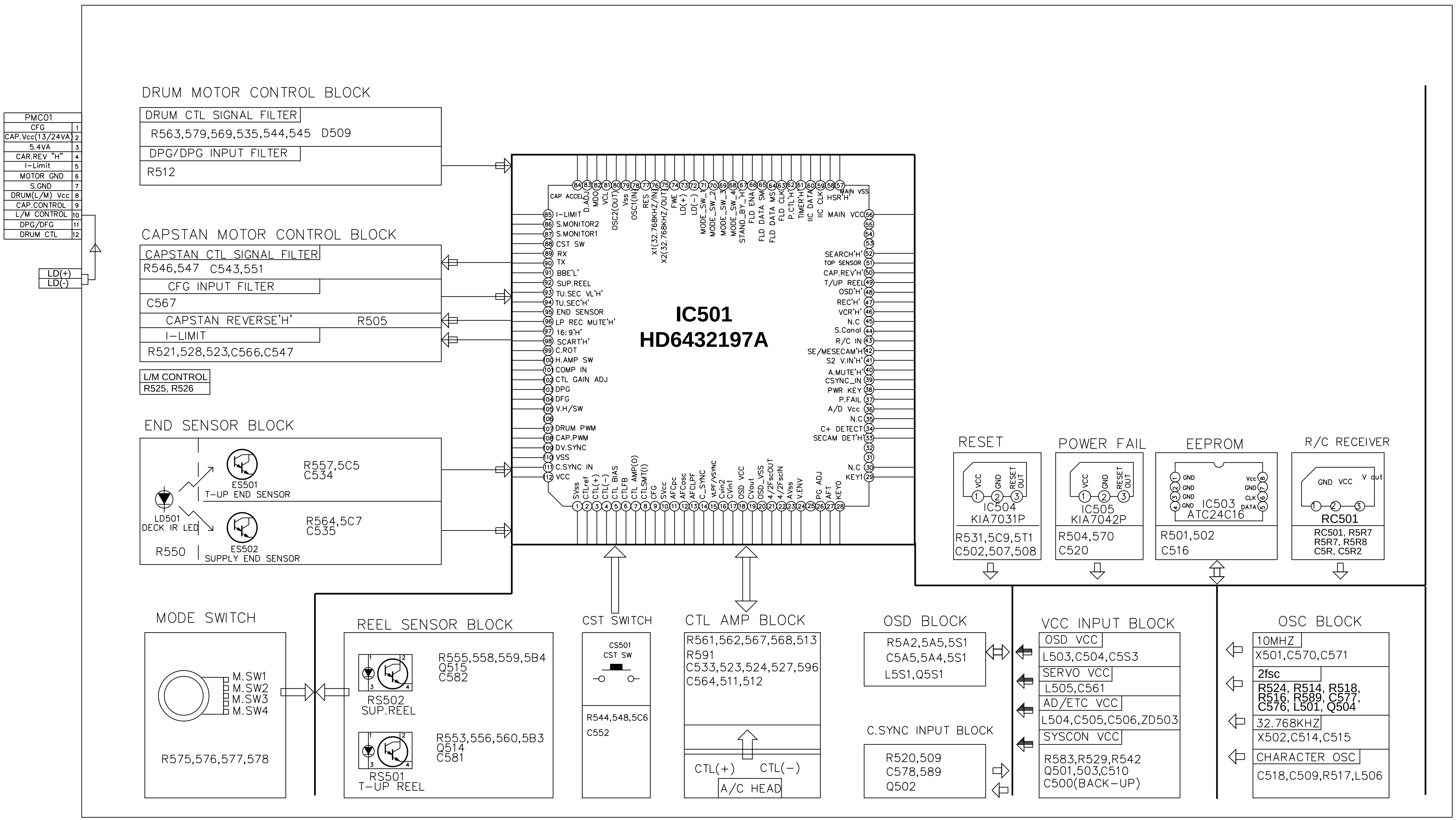
(REC MODE)



5. Hi-Fi Block Diagram

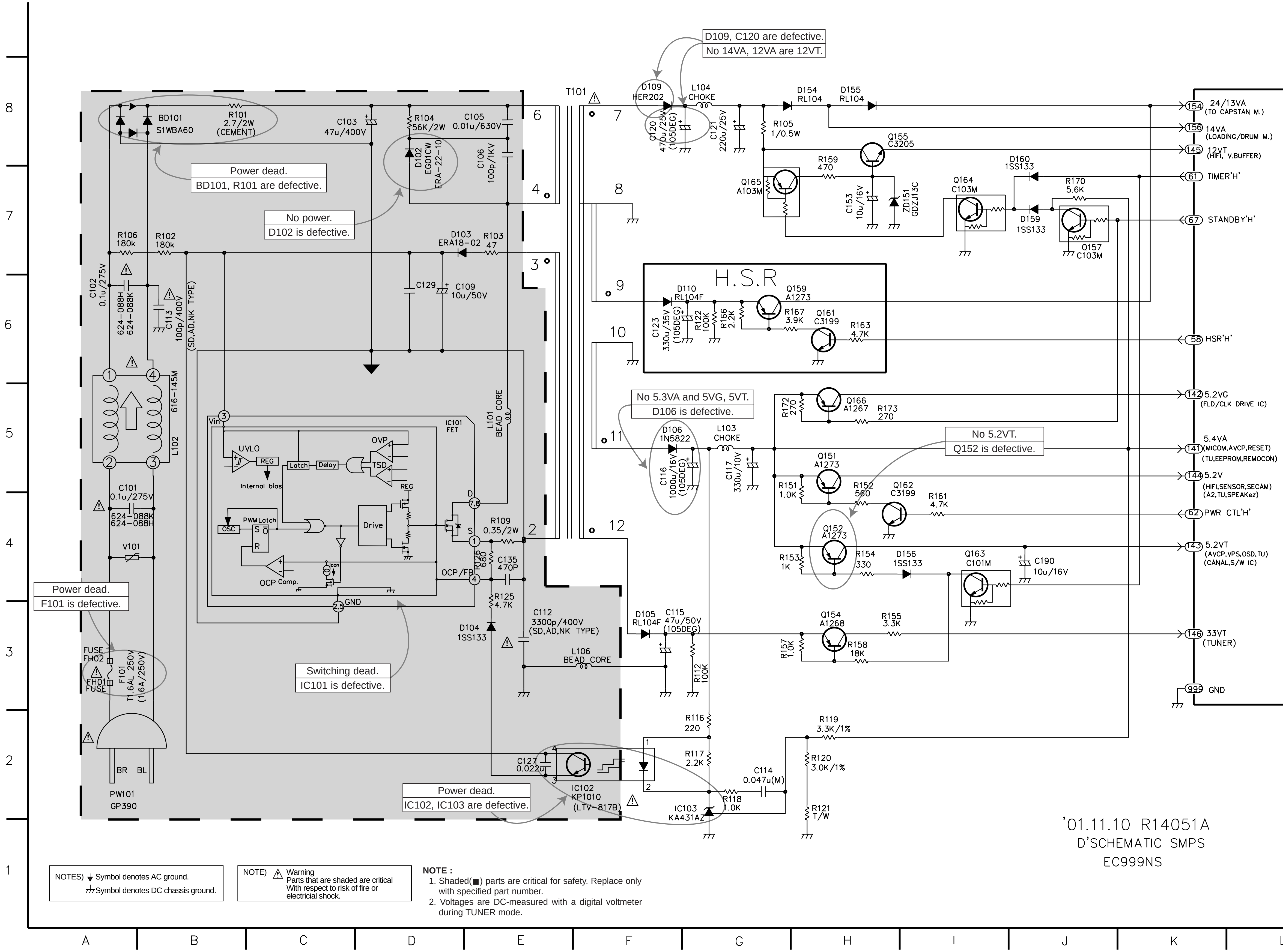


6. System Block Diagram



CIRCUIT DIAGRAMS

1. Power Circuit Diagram



LOCATION GUIDE

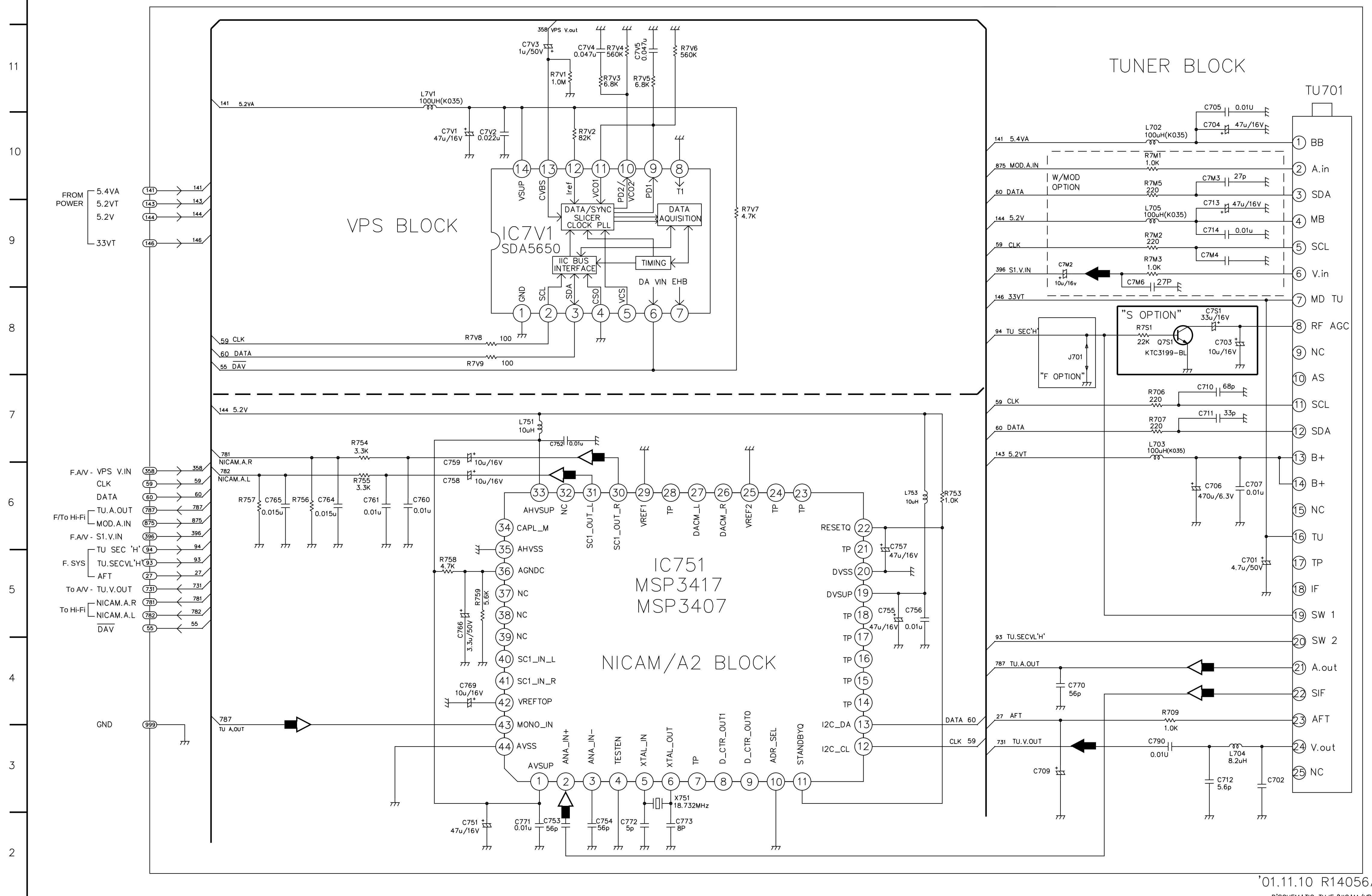
BD101	B8	Q154	H3
C101	A5	Q155	H8
C102	A6	Q157	J7
C103	C8	Q159	G6
C105	E8	Q161	H6
C106	E7	Q162	H5
C109	D6	Q163	I4
C112	E3	Q164	I7
C113	B6	Q165	G7
C114	G2	Q166	H5
C115	F3	R101	B8
C116	F5	R102	B7
C117	G5	R103	E7
C120	F8	R104	D8
C121	G8	R105	G8
C123	F6	R106	A7
C127	E2	R109	E4
C129	D6	R112	G3
C135	E4	R116	G2
C153	H7	R117	G2
C190	J4	R118	G2
D102	D7	R119	H2
D103	D7	R120	H2
D104	D3	R121	H2
D105	F3	R122	G6
D106	F5	R125	E4
D109	F8	R126	E4
D110	F6	R151	G5
D154	H8	R152	H5
D155	H8	R153	G4
D156	H4	R154	H4
D159	J7	R155	H3
D160	J8	R157	G3
FH01	A3	R158	H3
FH02	A3	R159	H8
IC101	D5	R161	I4
IC102	F2	R163	H6
IC103	F2	R166	G6
L101	E5	R167	G6
L102	B5	R170	J7
L103	G5	R172	G5
L104	G8	R173	H5
L106	E3	T101	E8
PW101	A2	V101	A4
Q151	H5	ZD151	I7
Q152	H4		

NOTES) Symbol denotes AC ground.
Symbol denotes DC chassis ground.

NOTE) ⚠ Warning
Parts that are shaded are critical
With respect to risk of fire or
electrical shock.

NOTE :
1. Shaded(■) parts are critical for safety. Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmeter during TUNER mode.

2. Tuner, NICAM Circuit Diagram



LOCATION GUIDE

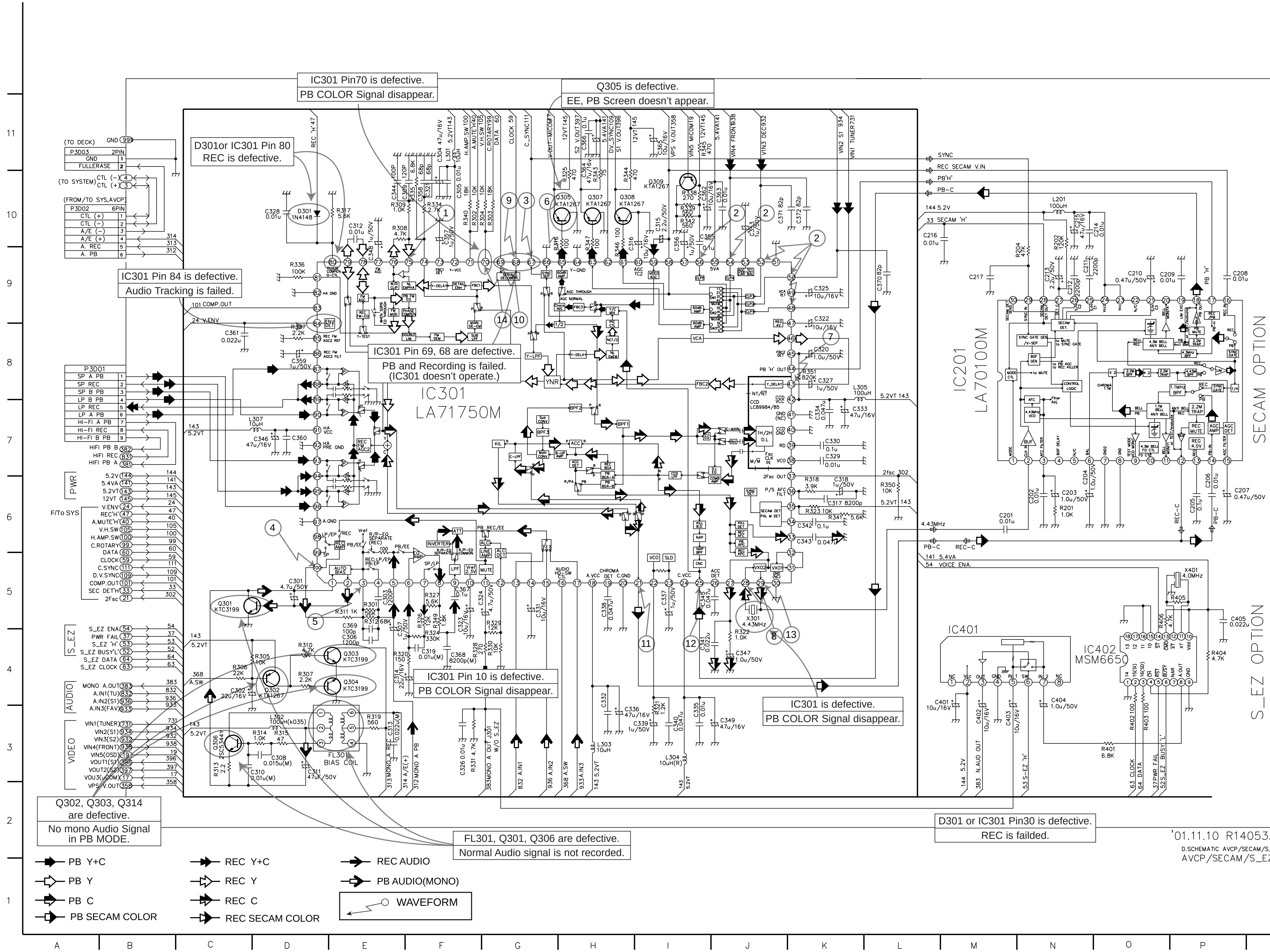
C701	N5
C702	O3
C703	N8
C704	N10
C705	N11
C706	N6
C707	N6
C709	L3
C710	N7
C711	N7
C712	N3
C713	N9
C714	N9
C751	E2
C752	F7
C753	F2
C754	G2
C755	J5
C756	K5
C757	J6
C758	E6
C759	E6
C760	E6
C761	D6
C764	D6
C765	C6
C766	E4
C769	E4
C770	L4
C771	F2
C772	G2
C773	H2
C790	M3
C7M2	L9
C7M3	N10
C7M4	N9
C7M6	M9
C7S1	N8
C7V1	E10
C7V2	F10
C7V3	F11
C7V4	G11
C7V5	G11
IC751	H5
IC7V1	F9
J701	L8
L702	M10
L703	M7
L704	N3
L705	M9
L751	F7
L753	K6
L7V1	E11
Q7S1	M8
R706	M7
R707	M7
R709	M4
R753	K6
R754	D7
R755	D6
R756	D6
R757	C6
R758	E5
R759	F5
R7M1	M10
R7M2	M9
R7M3	M9
R7M5	M10
R7S1	M8
R7V1	F11
R7V2	G10
R7V3	G11
R7V4	G11
R7V5	G11
R7V6	H11
R7V7	I9
R7V8	F8
R7V9	F8
TU701	O11
X751	H3

EE MODE(VIDEO)

TU MODE (AUDIO)

A B C D E F G H I J K L M N O P Q

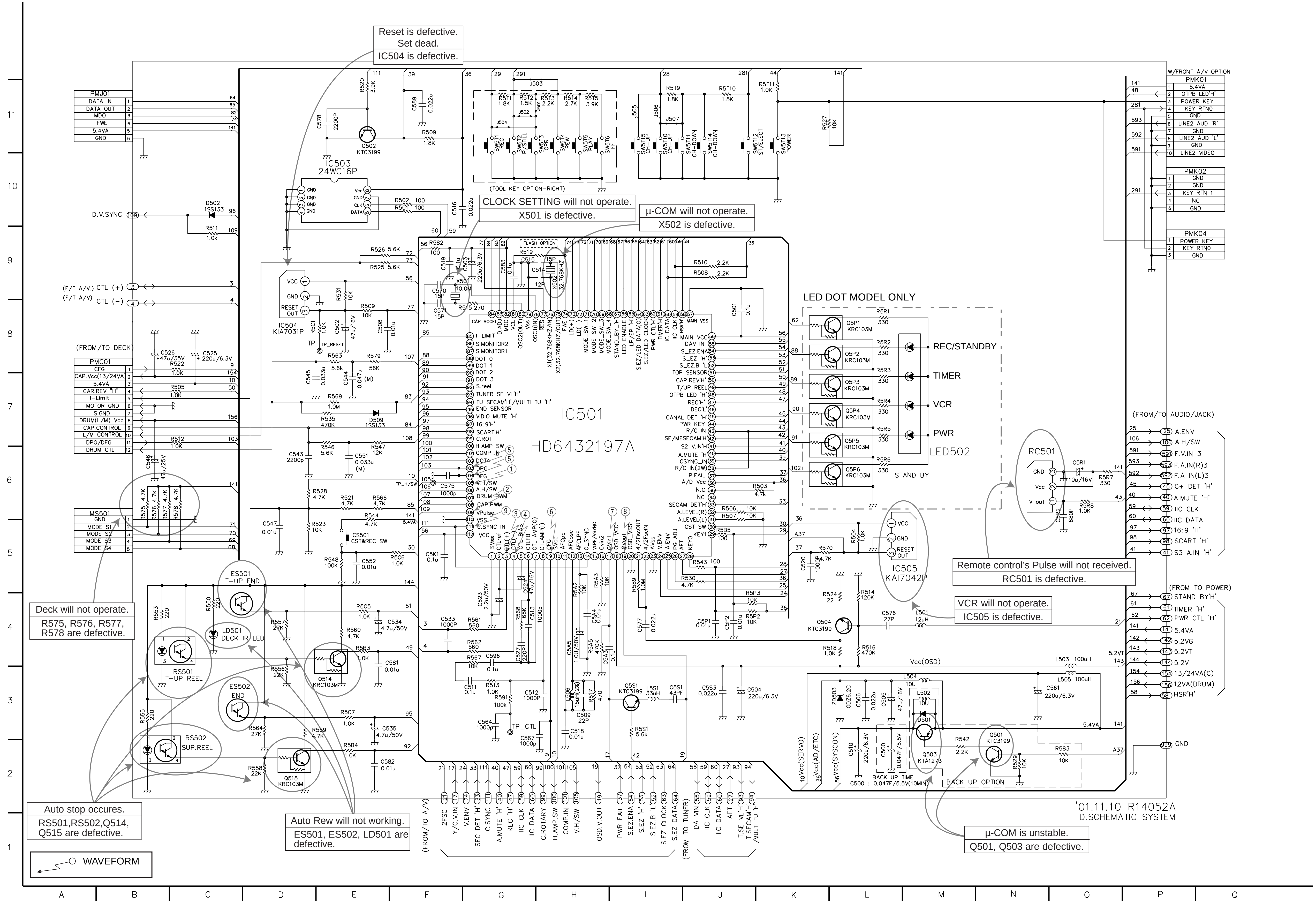
3. A/V, SECAM, VPS Circuit Diagram



LOCATION GUIDE

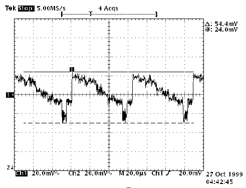
C201	M6	L302	D3
C202	N6	L303	H3
C203	N6	L304	I3
C204	N6	L305	K8
C205	P6	L307	C7
C206	P6	P3D01	A8
C207	P6	P3D02	A10
C208	P9	P3D03	A11
C209	O9	Q301	C5
C210	O9	Q302	D4
C211	N9	Q303	E4
C212	N9	Q304	E4
C213	N9	Q305	G10
C214	O10	Q306	C3
C215	N10	Q307	H10
C216	L10	Q308	H10
C217	M9	Q309	I10
C301	D5	R201	N6
C302	C4	R202	N9
C303	E5	R204	N9
C304	F11	R301	E5
C305	F10	R302	F10
C306	E4	R303	G10
C307	E4	R304	G10
C308	D3	R305	D4
C309	F10	R306	C4
C310	C3	R307	D4
C311	D3	R308	E10
C312	E10	R309	E10
C313	E3	R310	D4
C314	E4	R311	E5
C315	I10	R312	E5
C316	H9	R313	C3
C317	K6	R314	D3
C318	K6	R315	D3
C319	F4	R316	H9
C320	K8	R317	E10
C321	F10	R318	K6
C322	K9	R319	E3
C323	F4	R320	E4
C324	G5	R321	I3
C325	K9	R322	J4
C326	F3	R323	K6
C327	K8	R324	F4
C328	D10	R325	H10
C329	K7	R326	F5
C330	K7	R327	F5
C331	G5	R328	F4
C332	H3	R329	G5
C333	K7	R330	G4
C334	K7	R331	F3
C335	I3	R334	F10
C336	H3	R335	F10
C337	I5	R336	D9
C338	H5	R337	D8
C339	H3	R338	I10
C340	I3	R339	I10
C341	I4	R340	F10
C342	K6	R341	K6
C343	K6	R342	I10
C344	E10	R343	H10
C345	I5	R344	H10
C346	D7	R345	I11
C347	J4	R346	H9
C348	E9	R347	H9
C349	J3	R349	F5
C353	J10	R350	L6
C355	I10	R351	K8
C356	I9	R401	O3
C357	F10	R402	O3
C358	F10	R403	O3
C359	D8	R404	P4
C360	D7	R405	P5
C361	C8	R406	O5
C362	I10	X301	J5
C363	J10	X401	P5
C364	H10		
C365	I11		
C366	H11		
C367	F5		
C368	F4		
C369	E5		
C370	L9		
C371	J10		
C372	K10		
C401	L4		
C402	M3		
C403	M3		
C404	N4		
C405	P5		
D301	D10		
FL301	E3		
IC201	M8		
IC301	F8		
IC401	M4		
IC402	N4		
J301	G3		
L201	N10		
L301	F11		

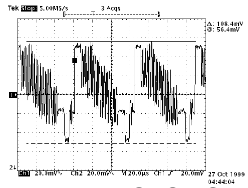
4. System Circuit Diagram

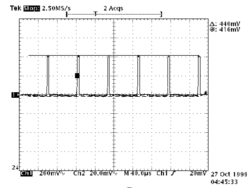


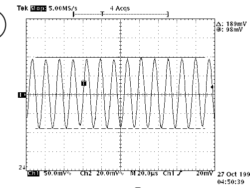
WAVEFORM & VOLTAGE SHEET

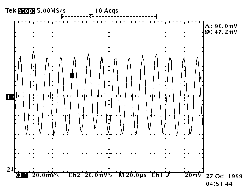
_ IC301 Oscilloscope Waveform

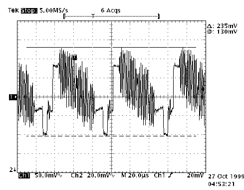
(1)

IC301 Pin (75)
PB mode
500mvp-p

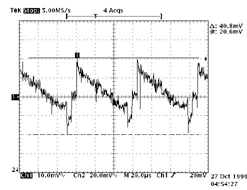
(2)

IC301 Pins (48),(50), (52)
(54), (56)
Video in 1Vp-p

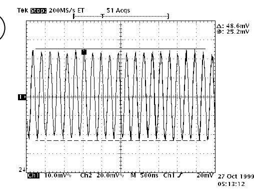
(3)

IC301 Pin (67)
PB/REC mode
4.0Vp-p

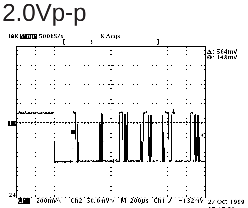
(4)

IC301 Pin (100)
REC mode
1.1Vp-p

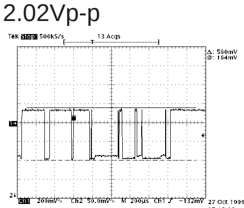
(5)

IC301 Pin (3)
REC mode
2.0Vp-p

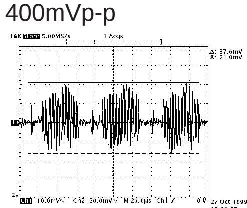
(6)

IC301 Pin (65)
PB mode
2.02Vp-p

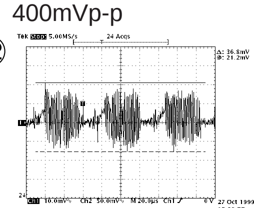
(7)

IC301 Pin (43)
PB mode
400mVp-p

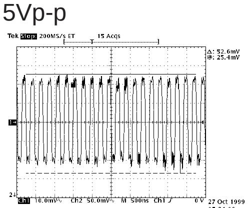
(8)

IC301 Pin (28)
PB mode
400mVp-p

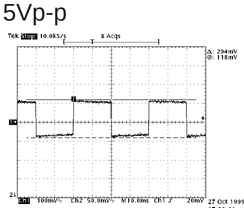
(9)

IC301 Pin (68)
PB/REC mode
5Vp-p

(10)

IC301 Pin (69)
PB/REC mode
5Vp-p

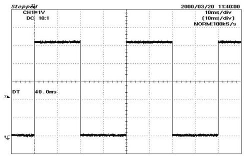
(11)

IC301 Pins (21)
REC mode
340mVp-p

(12)

IC301 Pins (25)
PB mode
300mVp-p

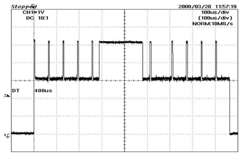
(13)

IC301 Pin (29)
PB mode
400mVp-p

(14)

IC301 Pin (70)
PB mode
3.6Vp-p

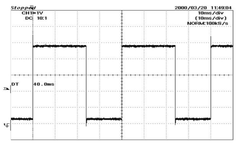
* IC501 Waveform Photographs

① 

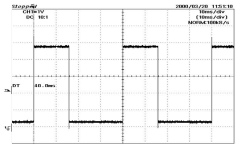
V.HSW
(IC501 Pin 105)
1V/10mS
REC/PB MODE

② 

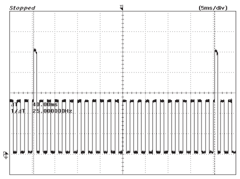
DV.SYNC
(IC501 PIN 109)
1V/100uS
QUE/REV MODE

③ 

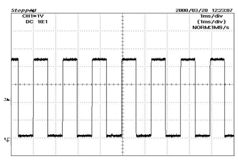
CTL(+)
(IC501 Pin 3)
1V/10mS

④ 

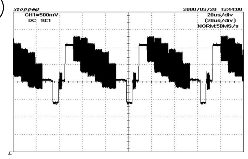
CTL(-)
(IC501 Pin4)
1V/10mS

⑤ 

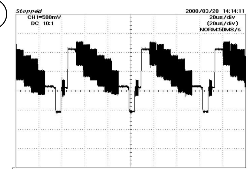
DFG/FG
(IC501 PIN 103,104)
1V/10mS
REC/PB MODE

⑥ 

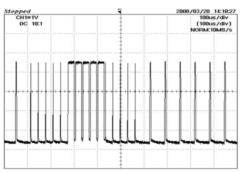
CFG
(IC501 Pin9)
1V/10mS

⑦ 

V.IN
(IC501 Pin 17)
500mV/20uS

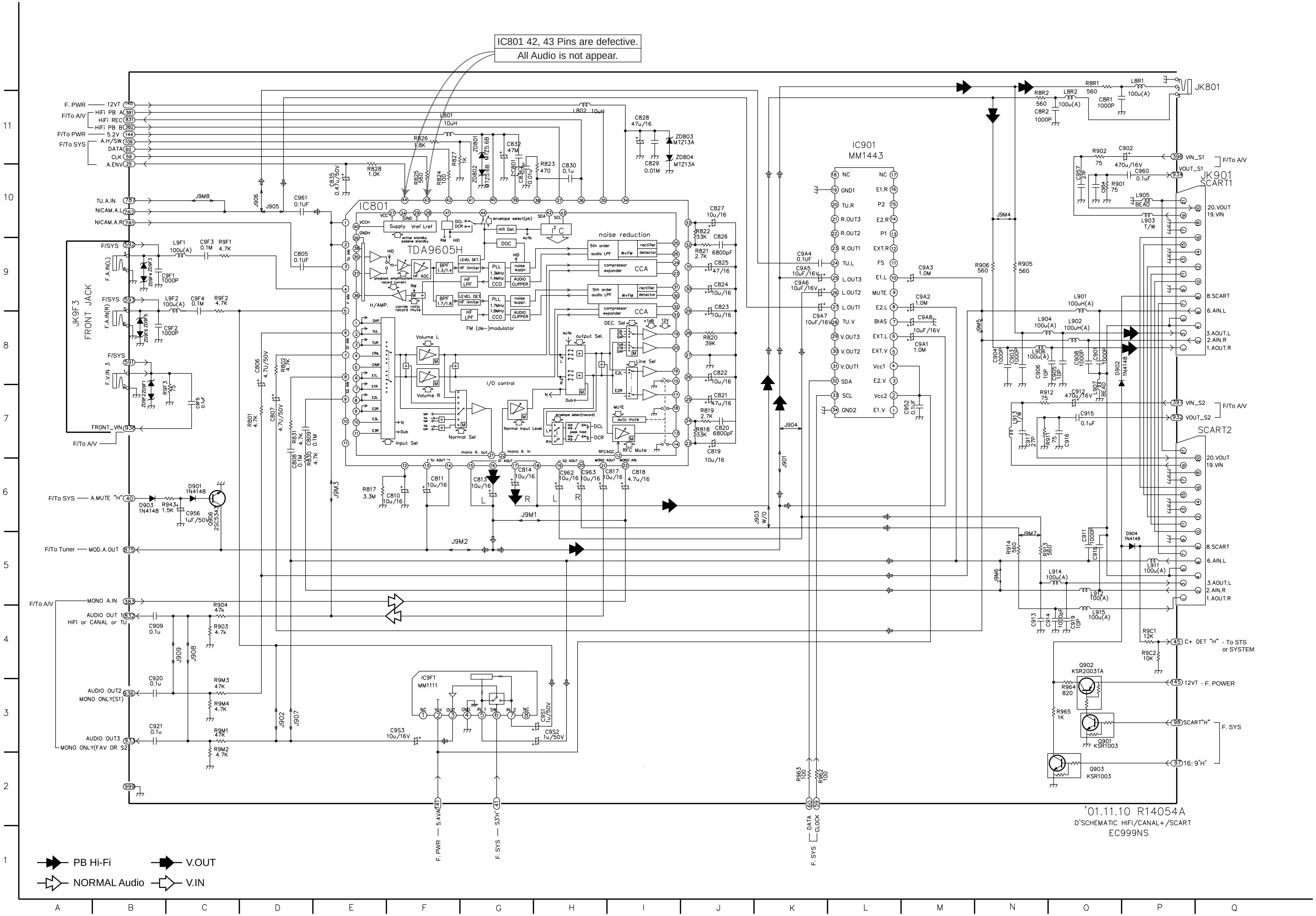
⑧ 

V.OUT
(IC501 Pin 19)
500mV/20uS
EE/PB MODE

⑨ 

C.SYNC
(IC501 Pin 111)
1.0V/100uS
EE/PB MODE

5. Hi-Fi, SCART Circuit Diagram



• CIRCUIT VOLTAGE CHART

MODE / PIN NO.	EE	PB	REC
IC103			
R	2.45	2.45	2.44
A	-0.03	-0.03	0
K	4.05	4.06	4.07
IC201			
1	2.52	2.52	2.52
2	2.4	2.41	2.41
3	0	3.35	3.37
4	0	2.59	0
5	0	0	0
6	2.8	3.72	0
7	0	0	0
8	0	0	0
9	3.04	3.02	3.04
10	2.53	2.51	0
11	2.1	2.08	2.19
12	3.32	1.96	3.25
13	4.01	4.01	4.01
14	2.55	2.54	2.56
15	3.06	1.94	3.06
16	6.2	3.2	3.22
17	2.34	4.25	0.22
18	0.13	3.44	0.13
19	2.23	2.21	2.22
20	2.08	2.22	2.06
21	2.27	2.4	2.28
22	1.42	1.43	0
23	5.05	5.02	5.06
24	5.05	5.02	5.06
25	2.31	2.07	2.37
26	2.3	2.02	2.38
27	2.09	2.08	2.11
28	0.18	0.19	0.18
29	0.48	0.26	0.41
30	2.08	2.07	2.11
IC401			
1	0	0.01	0
2	5.21	5.2	5.21
3	2.19	2.2	2.19
4	0	0	0
5	2.91	2.91	2.91
6	0	0	0
7	2.92	2.92	2.92
8	0	0	0
IC402			
1	0	0	0
2	2.86	2.86	2.85
3	5.15	5.16	0
4	5.29	5.29	5.29
5	4.94	4.94	4.94
6	5.29	5.29	5.29
7	5.29	5.2	5.29
8	2.57	2.57	2.57
9	0	0	0
10	5.29	5.29	5.29

MODE / PIN NO.	EE	PB	REC
11	2.41	2.41	2.42
12	2.1	2.1	2.08
13	0	5..29	5.29
14	5.26	5.26	5.25
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
IC301			
1	5.15	5.14	1.7
2	0.02	0.03	0.75
3	2.29	2.29	0
4		1.46	0.5
5	2.28	2.26	2.47
6	2.29	2.28	2.29
7	2.28	2.28	2.27
8	2.27	2.27	2.27
9	2.26	2.26	3.05
10	2.29	2.29	2.28
11	2.37	2.39	2.28
12	0	0.02	0.11
13	2.26	2.3	2.28
14		0.02	
15	2.26	2.26	2.29
16	5.17	0.16	5.05
17	2.26	2.26	2.27
18	5.17	5.17	5.14
19	4.24	4.25	3.07
20	0	0	0
21	3.36	1.96	3.25
22	3.07	3.06	3.06
23	3.06	3.03	3.05
24	5.16	5.16	5.13
25	0.13	3.44	5.13
26	1.44	1.82	0
27	2.07	2.1	1.42
28	4.23	4.21	4.18
29	2.83	2.83	2.9
30	0	0	0
31	4.7	4.7	4.69
32	4.7	4.7	4.69
33	2.85	2.06	2.07
34	0.33	0.31	0.31
35	2.17	2.16	2.16
36	3.35	3.35	3.35
37	2.09	2.11	2.09
38	1.99	2.03	2.02
39	9.45	9.43	9.39
40	0	0	0
41	0	0	0
42	5.17	5.16	5.14
43	2.4	2.42	2.39
44	2.34	4.42	0.08
45	2.33	2.46	2.46
46	2.69	2.67	2.68

MODE / PIN NO.	EE	PB	REC
47	4.17	4.17	4.17
48	2.35	2.37	2.33
49	3.18	3.18	3.18
50	1.97	1.97	1.97
51	0	0	0
52	1.97	1.97	1.97
53	2.34	2.35	2.35
54	1.97	1.99	1.99
55	5.24	5.24	5.24
56	2.25	2.31	2.29
57	2.02	2.14	1.99
58	2.37		2.4
59	2.94	2.95	2.93
60	1.42	1.55	1.38
61	1.72	1.85	2.05
62	0.09	0.11	0.11
63	1.75	1.84	
64	0	0	0.
65	1.85	1.85	1.81
66	0	0	0
67	0.	0.44	0.4
68	4.79	4.91	4.81
69	4.75	4.81	4.79
70	5.27	2.69	2.69
71	0.01	0	0.01
72	5.13	5.11	5.09
73		1.98	2.21
74	2.55	2.63	2.53
75	2.46	2.63	2.45
76	2.47	0.77	2.45
77	1.59	1.59	1.49
78	2.7	3.39	2.69
79	2.02	1.91	2.52
80	1.06	1.06	4.72
81	1.11	1.12	1.11
82	0	0	0
83	5.13	1.47	1.51
84	0.46	2.43	1.75
85	0	0	1.36
86		0	2.03
87	0	0.72	0.7
88	0.71	0.72	0.7
89	0.71	0.72	0.7
90	0.71	0.72	0.7
91	5.17	5.16	5.11
92	0	0	0
93	1.95	1.93	0.73
94	1.95	1.93	0.72
95	1.95	1.93	0.72
96	1.95	1.93	4.33
97	0	0	0
98	2.29	2.29	2.4
99	0	2.29	2.4
100	2.29	2.29	2.53

MODE / PIN NO.	EE	PB	REC
IC501			
1	0	0	0
2	2.39	2.57	2.57
3	2.57	2.57	3.04
4	2.57	2.57	2.1
5	2.57	2.57	2.57
6	2.56	2.57	2.57
7	2.58	2.59	2.58
8	2.55	2.55	2.55
9	4.62	2.31	2.31
10	4.85	5.16	5.016
11	1.89	1.91	1.9
12	1.89	1.9	1.89
13	2.61	2.5	2.49
14	0.4	0.4	0.4
15	0.08	0.1	0.56
16	1.99	1.91	1.98
17	2.39	2.34	2.31
18	5.14	5.14	5.11
19	2.41	2.37	2.33
20	0	0	0
21	2.47	2.47	0
22	2.46	2.46	0
23	0	0	0
24	0.51	2.47	0.01
25	2.81	2.88	2.8
26	5.27	2.28	5.28
27	2.46	2.5	2.54
28	5.27	5.28	5.28
29	5.22	5.27	5.27
30	0	5.01	0.05
31	0.17		1.9
32	0.12		
33	0.18	0.18	0.18
34	0.31	0.3	0.43
35	5.27	5.28	5.28
36	5.28	5.29	5.28
37	4.93	4.94	4.94
38	4.88	4.88	4.87
39	2.29	2.29	2.28
40	0	0	0
41	0	0	0
42	0	0	0
43	4.88	4.88	4.87
44	5.24	5.25	5.24
45	0	0	0
46	0	0	0
47	0	0	0
48	0	0	0
49	0.01	5.28	
50	5.25	0	0
51	4.48	0.04	0.02
52	5.28	5.29	5.29
53	0	0	0
54	5.25	5.26	5.27

MODE / PIN NO.	EE	PB	REC
55	5.27	5.29	0.08
56	5.27	5.28	5.28
57	0	0	0
58	0	0	0
59	4.91	4.92	4.79
60	4.91	4.91	4.79
61	5.17	5.18	5.18
62	5.17	5.19	5.18
63	2.84	2.83	2.86
64	5.14	5.14	5.15
65	0.01	0.01	0.02
66	5.1	5.11	5.11
67	0.83	0.83	0.89
68	0.01	5.3	5.3
69	0.01	5.3	5.3
70	5.29	5.3	5.3
71	5.29	0	0.01
72	0.03	0.03	0.04
73	5.24	5.23	5.22
74	0	0	0
75	1.49	1.5	1.5
76	1.3	1.4	1.21
77	5.27	5.27	5.27
78	2.55	2.53	2.54
79	0	0	0
80	5.29	2.58	2.58
81	3.25	3.25	3.25
82	5.28	5.28	5.28
83	0	2.7	2.69
84	0	2.77	2.77
85	0	3.55	3.55
86	2.65	2.68	2.86
87	0	3.3	3.21
88	0	0	0
89	0	0	0
90	0	0	0
91	0	0	0
92	0.95	5.16	
93	0	0	0
94	0	0	0
95	0.29	0.1	0.07
96	0	0	0
97	0	0	0
98	5.26	5.26	5.25
99	0	2.7	0
100	0.01	0	0
101	0.7	0.13	0.57
102	0	0	0
103	0.12	1.39	1.39
104	0.12	1.39	1.39
105	0	2.7	0
106	0	2.64	5.12
107	0	2.75	2.74
108	0	2.78	2.77
109	0.05	0.05	0.05

MODE / PIN NO.	EE	PB	REC
110	0	0	0
111	4.2	0.4	0.4
112	5.29	5.28	5.27
IC503			
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	5.01	4.95	4.79
6	5.01	4.95	4.8
7	0	0	0
8	5.29	5.29	5.28
IC504			
1	5.28	5.28	5.28
2	0	0	0
3	5.28	5.28	5.28
IC505			
1	5.28	5.28	5.28
2	0	0	0
3	4.87	4.87	4.87
IC7V1			
1	0	0	0
2	5.01	4.94	4.79
3	5.01	4.94	4.78
4	0	0	0
5	5.28	5.28	0.39
6	5.28	5.28	
7	0	0	2.66
8	0	0	0
9	0.01	0.01	2.31
10	0	0	2.36
11	0.01	0	2.31
12	1.56	1.56	1.56
13	0.99	0.99	1.39
14	5.28	5.29	5.28
IC801			
1	2.84	2.91	2.7
2	2.92	2.91	2.81
3	2.91	2.9	2.81
4	2.82	2.81	2.68
5	2.8	2.86	2.67
6	2.8	2..86	2.66
7	2.79	2.85	2.65
8	2.78	2.85	2.65
9	2.79	2.84	2.66
10	2.79	2.84	2.66
11	2.77	2.83	2.65
12	2.76	2.82	2.64
13	2.71	2.75	2.59
14	2.49	2.51	2.33
15	2.48	2.51	2.32
16	2.64	2.67	2.49
17	2.64	2.68	2.5
18	1.48	2.57	2.32
19	2.63	2.67	2.5

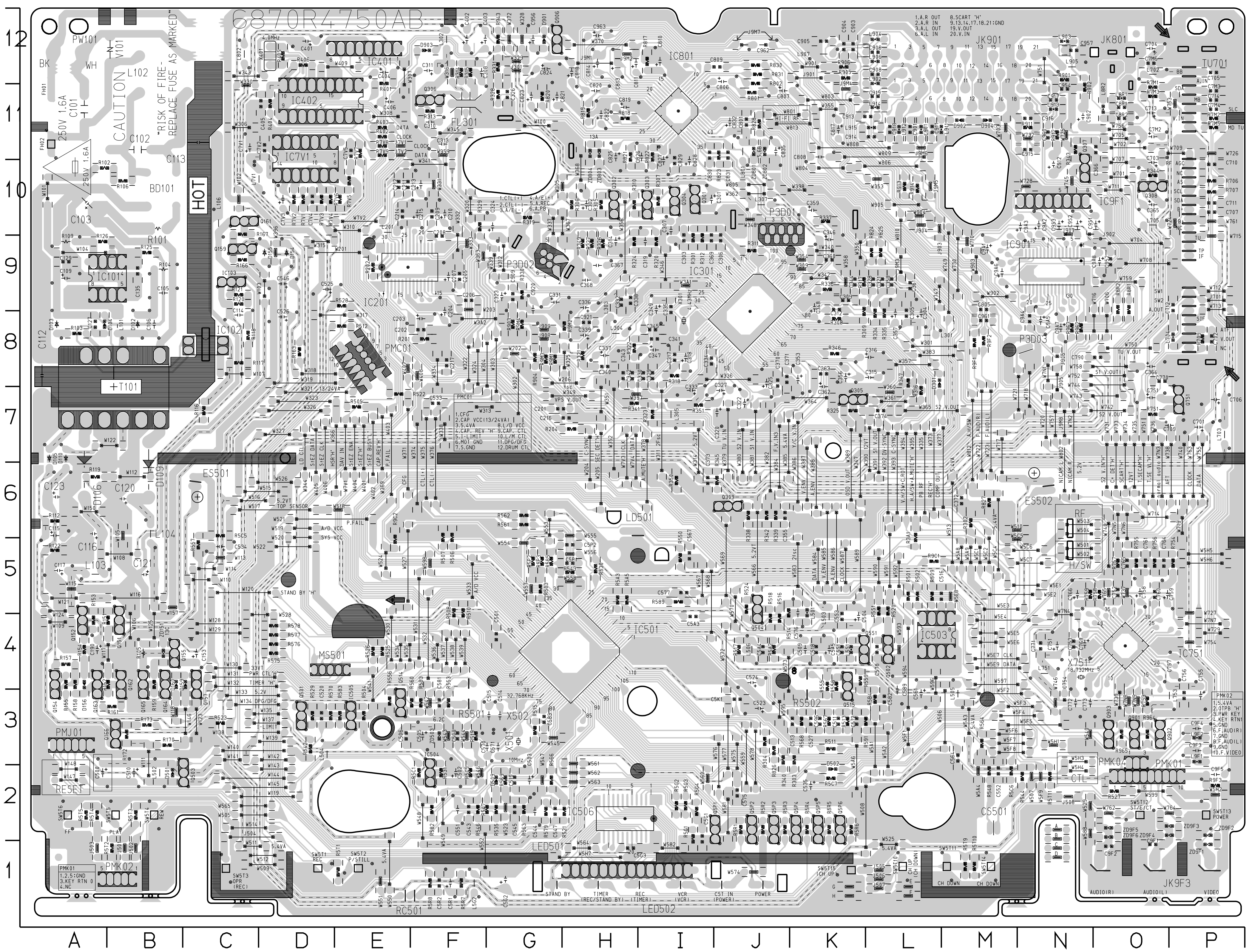
MODE / PIN NO.	EE	PB	REC
20	2.6	2.63	2.5
21	2.57	2.59	2.47
22	2.66	2.86	2.55
23	2.63	2.64	2.51
24	2.5	2.5	2.39
25	2.52	2.53	2.4
26	2.36	2.37	2.27
27	0.01	0	0
28	2.51	2.47	2.41
29	2.6	2.57	2.46
30			
31	2.34	2.41	1.38
32	0.03	0.02	-0.07
33	0.03	0.04	-0.06
34	12.6	12.5	12.57
35	3.35	3.31	2.89
36	3.29	3.3	2.9
37	3.29	3.3	2.9
38	3.55	3.56	3.42
39	0	0	0.01
40	5.2	5.2	5.21
41	2.27	2.29	2.5
42	4.96	4.98	4.91
43	5.05	5.06	4.97
44	2.8	2.79	2.69
IC751			
1	5.14	5.15	5.15
2	1.51	1.51	1.51
3	1.51	1.51	1.51
4	0	0	0
5	2.47	2.48	2.48
6	2.47	2.48	2.48
7	0.54	0.5	0.46
8	0	0	0.45
9	0	0	0.45
10	0	0	0
11	5.16	5.16	5.16
12	4.91	4.86	4.79
13	4.9	4.8	4.79
14	2.58	0.51	0.57
15	2.58	0.5	0
16	2.41	0.51	0.57
17	0.53	0.53	0
18	0.54	0.51	0.58
19	5.13	5.14	5.14
20	0	0	0
21	0.53	0.51	0
22	5.16	5.16	5.16
23	0	0.02	0
24	0	0.02	0
25	0	0	0
26	0	0.05	0
27	0.05	0.05	0
28	0	0	0
29	0	0	2.8

MODE / PIN NO.	EE	PB	REC
30	2.8	2.8	2.8
31	2.79	2.79	2.79
32	0	0.02	0
33	5.16	5.14	5.15
34	4.2	4.2	4.21
35	0	0	0
36	2.8	2.8	2.8
37			0
38			0
39			0
40	2.84	2.84	2.79
41	2.85	2.83	2.79
42	2.59	2.59	2.59
43	2.31	2.31	2.3
44	3.3		0

Tran-sistor	EE Mode			PB Mode			REC Mode		
	EE	PB	REC	EE	PB	REC	EE	PB	REC
Q151	4.55	5.3	5.24	5.34	4.54	5.24	5.3	4.55	5.24
Q152	5.31	4.52	5.22	5.31	4.52	5.22	5.3	4.51	5.22
Q154	32.99	32.34	32.97	33.53	32.89	33.5	33.76	33.12	33.72
Q155	12.73	13.4	14.05	12.68	13.35	13.77	12.76	13.42	13.98
Q157	0.03	0.84	4.38	0.03	0.84	4.38	-0.03	0.84	4.38
Q159	29.84	29.78	13.21	29.79	29.8	12.48	30.14	30.13	12.73
Q161	0.03	0	29.82	0.03	0	29.8	-0.03	0	30.11
Q162	0.02	0.69	0	-0.02	0.69	0	-0.02	0.69	0
Q163	0.03	5.18	0.03	0.03	5.18	0.03	-0.03	5.18	0.03
Q164	-0.03	4.38	-0.01	-0.03	4.38	-0.01	-0.03	4.38	0
Q165	14.06	-0.01	14.04	13.74	-0.01	13.71	13.95	-0.01	13.95
Q166	4.4	5.3	5.11	5.3	4.41	5.13	5.3	4.4	5.1
Q301	0	0.01	5.15	0	0	5.15	0	0.75	1.69
Q302	5.18	5.18	-0.42	5.18	4.52	5.12	5.14	5.13	-24.71
Q303	0.01	-0.42	0	0	0.69	0.01	-18.22	-24.85	0.01
Q304	0.01	-0.4	0	0	0.71	0	-18.22	-24.7	0
Q305	2.01	1.29	0	2.53	1.83	0	2.5	1.81	0
Q306	5.14	5.19	5.19	5.19	5.16	5.19	1.9	2.14	4.89
Q307	2.69	1.98	0	2.69	1.98	0	2.64	1.93	0
Q308	2.66	1.98	0	2.63	1.96	0	2.6	1.93	0
Q309	3.09	2.41	0	3.05	2.37	0	3.01	2.33	0
Q501	0	0.67	0.01	0	0.67	0.01	0	0.67	0.01
Q502	0	0.71	0.01	0	0.22	2.33	0	0.23	2.29
Q503	5.3	4.61	5.28	5.3	4.61	5.28	5.3	4.61	5.28
Q504	0	0.14	2.69	0.05	0.63	2.65	0.05	0.67	2.67
Q5S1	0.43	0	1.61	2.22	0	2.53	1.92	0	2.5
Q514	0	5.09	0.01	0			0		
Q515	0	0	5.16	0			0		
Q906	0	0.12	1.93	0	0.07	2.37	0	0.13	2.4
Q901	0	5.26	0.01	0	5.25	0.01	0	5.25	0.01
Q7S1	0	0	1.32	0	0		0	0	0.98
Q902	12.73	0.01	12.73	12.66	0.01	12.66	12.72	0.01	12.71
Q903	0	0	12.72	0	0	12.64	0	0	12.71

PRINTED CIRCUIT BOARD DIAGRAMS

1. MAIN P.C.Board



(Solder Side)

LOCATION GUIDE

BD101	B10	C338	H9	C567	I5	C811	H12	D156	A4	L506	J4	Q7S1	P7	R338	J6	R575	D4	R823	J11
C101	A11	C339	H8	C570	G3	C813	H12	D159	C4	L5G2	F1	Q901	O3	R339	J6	R576	D4	R824	L9
C102	B11	C340	H8	C571	G3	C814	H12	D160	B4	L5S1	K4	Q902	O3	R340	J3	R577	D4	R825	L9
C103	A10	C341	I8	C575	J2	C817	K11	D301	L8	L702	O12	Q903	O3	R341	H7	R578	D4	R826	J3
C105	B9	C342	H8	C576	K5	C818	H12	D501	B2	L703	P7	Q906	G12	R342	J6	R579	G2	R827	M6
C106	B8	C343	H8	C577	I5	C819	H11	D502	K2	L704	P8	R101	B10	R343	N11	R582	F2	R828	J11
C109	A9	C344	K9	C578	L4	C820	H11	D509	G2	L705	O10	R102	A10	R344	O10	R583	E3	R830	J12
C112	A8	C345	I8	C581	F3	C821	G11	D901	G12	L751	N4	R103	A8	R345	J6	R589	I5	R831	J12
C113	C11	C346	K9	C582	L3	C822	H11	D902	M11	L753	P3	R104	B9	R346	K8	R591	L3	R8R1	O9
C114	C8	C347	I8	C583	G3	C823	G11	D903	F12	L7V1	D10	R105	B4	R347	L8	R5A2	J4	R8R2	O9
C115	A6	C348	K9	C589	L3	C824	G12	D904	M11	L801	J11	R106	B10	R349	H9	R5A3	H5	R901	N12
C116	A6	C349	I9	C596	K3	C825	H11	ES501	C7	L802	C12	R109	A9	R350	I6	R5A5	H5	R902	N11
C117	A5	C353	K8	C5A3	I4	C826	I11	ES502	N6	L8R1	O11	R112	A6	R351	I7	R5B3	F3	R903	G8
C120	B6	C355	J6	C5A4	J4	C827	I10	FH01	A11	L8R2	O11	R116	C7	R3A1	L6	R5B4	L3	R904	G8
C121	B5	C356	K8	C5A5	K4	C828	I10	FH02	A11	L901	L11	R117	C8	R401	E12	R5B5	G5	R905	K12
C123	A6	C357	L8	C5G1	I2	C829	I10	FL301	F11	L902	L12	R118	C8	R402	E11	R5C1	F2	R906	K12
C127	A8	C358	L9	C5G2	G1	C830	I11	IC101	A9	L903	N12	R119	A6	R403	E11	R5C5	C6	R911	N11
C129	A9	C359	K10	C5G3	H1	C831	J11	IC102	C8	L904	L12	R120	C9	R404	D11	R5C6	M2	R912	N11
C135	B9	C360	K9	C5K1	J3	C832	J11	IC103	C9	L905	N12	R121	C9	R405	D12	R5C7	K2	R913	L10
C153	C4	C361	L9	C5P1	H5	C835	J11	IC401	E12	L906	L12	R122	A5	R406	D12	R5C9	F2	R914	L10
C190	A4	C362	K7	C5P2	H5	C8R1	O11	IC402	E11	L907	K12	R125	B9	R501	L5	R5G1	I2	R943	G12
C201	G7	C363	K8	C5R1	F1	C8R2	O11	IC503	M4	L911	M11	R126	A9	R502	L5	R5G2	I2	R962	N8
C202	F8	C364	O8	C5R2	F1	C901	L11	IC504	F2	L912	L11	R151	B4	R503	G5	R5G3	I2	R963	N8
C203	F8	C365	O10	C5S1	K4	C902	N11	IC505	E3	L913	N11	R152	B4	R504	E3	R5G4	I2	R964	O3
C204	F8	C366	O11	C5S3	K4	C903	K12	IC7V1	D11	L914	L11	R153	A4	R505	E7	R5P2	G5	R965	O3
C205	F9	C367	H9	C701	P7	C904	K12	IC9F1	N10	L915	L11	R154	A4	R506	F6	R5P3	G5	R9C1	L5
C206	F9	C368	H9	C702	P8	C905	K12	J301	G12	L9F1	P3	R155	A4	R507	F6	R5R1	J2	R9C2	E5
C207	F9	C369	I9	C703	O10	C906	L12	J501	B1	L9F2	P3	R157	A4	R508	F5	R5R2	J2	R9F1	M8
C208	F9	C370	J8	C704	O12	C908	L12	J502	B1	LD501	I5	R158	A4	R509	L5	R5R3	J2	R9F2	M8
C209	F10	C371	J8	C705	P12	C909	G9	J503	A1	LED501	I1	R159	B4	R510	F5	R5R4	K2	R9F3	P2
C210	F10	C372	M6	C706	P7	C911	L11	J504	C2	LED502	J1	R161	B3	R511	K3	R5R5	K2	R9M1	G8
C211	E10	C373	I6	C707	P10	C912	N10	J505	L1	MS501	D5	R163	D8	R512	E8	R5R6	K2	R9M2	H8
C212	E10	C374	L7	C709	P7	C913	L11	J506	L1	P3D01	J10	R166	C9	R513	K3	R5R7	F1	R9M3	G8
C213	F10	C401	D12	C710	P10	C914	L11	J507	L1	P3D02	G9	R167	C10	R514	J5	R5R8	F1	R9M4	G8
C214	E10	C402	F12	C711	P10	C915	N11	J508	N2	P3D03	N8	R170	B3	R515	G3	R5S1	L5	RC501	E1
C215	F10	C403	F12	C712	P9	C916	N11	J701	P9	PMC01	E8	R172	B3	R516	J4	R5T1	E1	RS501	F3
C216	H7	C404	E12	C713	O11	C917	N11	J7V1	E11	PMJ01	A3	R173	B3	R517	J4	R5T10	M1	RS502	K4
C217	F8	C405	D11	C714	P11	C918	L11	J7V2	E11	PMK01	O2	R201	F8	R518	J4	R5T11	N2	SW5T1	D1
C301	I10	C406	E11	C751	N4	C919	L11	J901	K12	PMK02	B1	R202	E9	R519	F3	R5T2	B1	SW5T10	L1
C302	H10	C500	A2	C752	O5	C920	G9	J902	N10	PMK04	O3	R204	H7	R520	L5	R5T3	B2	SW5T11	M1
C303	I9	C501	G4	C753	N4	C921	H8	J903	L10	PW101	A12	R301	I9	R521	H2	R5T4	A2	SW5T12	O2
C304	L8	C502	F2	C754	N3	C952	O9	J904	L10	Q151	B4	R302	M6	R522	E7	R5T5	A2	SW5T13	P2
C305	L8	C503	G2	C755	P3	C954	N11	J905	N8	Q152	A4	R303	K3	R523	C3	R5T9	M1	SW5T14	M1
C306	J9	C504	K4	C756	P3	C956	G12	J906	N8	Q154	A4	R304	J3	R524	J5	R706	P10	SW5T15	K1
C307	I10	C505	F3	C757	P4	C957	N12	J907	N10	Q155	B4	R305	H10	R525	E4	R707	P10	SW5T2	E1
C308	F12	C506	E3	C758	O5	C960	N11	J908	G8	Q157	C4	R306	H10	R526	E4	R709	P8	SW5T3	C1
C309	K9	C508	F3	C759	O5	C961	M8	J909	G8	Q159	C9	R307	I10	R527	O2	R753	O3	SW5T4	B2
C310	F11	C509	K4	C760	O5	C962	J12	J9M1	H12	Q161	C10	R308	K8	R528	E9	R754	P5	SW5T5	B2
C311	F12	C510	B2	C761	O5	C963	H12	J9M2	H12	Q162	B4	R309	K8	R529	D3	R755	O5	SW5T6	A2
C312	K9	C511	K3	C764	O5	C9A1	M9	J9M3	L9	Q163	A4	R310	H10	R530	H5	R756	O5	T101	B7
C313	F11	C512	K3	C765	O5	C9A2	N10	J9M4	K11	Q164	B4	R311	J9	R531	F2	R757	O5	TU701	P12
C314	H9	C513	K3	C766	N5	C9A3	N10	J9M5	L10	Q165	B4	R312	I9	R535	G2	R758	O5	V101	B12
C315	L8	C514	G3	C769	N4	C9A4	N8	J9M6	L11	Q166	B3	R313	F11	R542	D3	R759	N5	X301	I8
C316	L8	C515	G3	C770	O8	C9A5	N8	J9M7	J12	Q301	I10	R314	F12	R543	H5	R7M1	O11	X401	D12
C317	I8	C516	M5	C771	N4	C9A6	M9	J9M8	N7	Q302	H10	R315	F12	R544	N2	R7M2	P11	X501	G3
C318	I8	C518	K4	C772	N3	C9A7	N8	JK801	O12	Q303	I10	R316	L7	R546	F2	R7M3	O11	X502	G3
C319	I9	C519	G2	C773	N3	C9A8	O9	JK901	M12	Q304	I10	R317	K9	R547	G2	R7M5	P11	X751	N4
C320	J7	C520	D3	C790	O8	C9F1	O1	JK9F3	P1	Q305	K7	R318	I8	R548	M2	R7S1	O7	ZD151	B4
C321	L9	C523	J3	C7M2	O11	C9F2	O1	L101	B8	Q306	F11	R319	G10	R550	I5	R7V1	D10	ZD503	F3
C322	J7	C524	J4	C7M3	P11	C9F3	P3	L102	B12	Q307	N10	R320	I9	R553	F3	R7V2	D10	ZD801	J11
C323	G9	C525	D9	C7M4	P11	C9F4	P3	L103	A5	Q308	O10	R321	H8	R555	K4	R7V3	D10	ZD802	J11
C324	G10	C526	D8	C7M6	O12	C9F5	P2	L104	B6	Q309	J6	R322	H8	R556	E3	R7V4	D10	ZD803	H11
C325	J8	C527	K3	C7S1	O7	C9S1	O10	L106	C10	Q501	D3	R323	I7	R557	C5	R7V5	E10	ZD804	H11
C326	G11	C533	F7	C7V1	C11	C9S2	N10	L201	E10	Q502	L4	R324	H9	R558	K4	R7V6	E10	ZD9F1	P1
C327	J7	C534	C5	C7V2	D11	C9S3	N10	L301	L8	Q503	C2	R325	K7	R559	K4	R7V7	E11	ZD9F2	P2
C328	L9	C535	K2	C7V3	D10	CS501	M2	L302	F12	Q504	J5	R326	H9	R560	F3	R7V8	E11	ZD9F3	P2
C329	I8	C543	F2	C7V4	D10	D102	B8	L303	H9	Q514	E3	R327	H9	R561	G6	R7V9	E11	ZD9F4	P2
C330	I8	C544	G2	C7V5	E11	D103	A8	L304	H8	Q515	K4	R328	G11	R562	G6	R801	J11	ZD9F5	O2
C331	G9	C545	G2	C801	J11	D104	A8	L305	I7	Q5P1	J2	R329	F10	R563	G2	R802	J12	ZD9F6	O2
C332	H9	C546	D9	C805	M9	D105	A7	L307	J10	Q5P2	J2	R330	G9	R564	M3	R817	I12		
C333	I7	C547	G2	C806	J12	D106	A6	L501	K5	Q5P3	J2	R331	G12	R566	G2	R818	H11		
C334	I8	C551	F2	C807	J11	D109	B6	L502	B2	Q5P4	K2	R334	L8	R567	K3	R819	H11		
C335	I9	C552	M2	C808	K11	D110	A7	L503	K4	Q5P5	K2	R335	L8	R568	K3	R820	G11		
C336	H9	C561	L3	C809	J12	D154	D9	L504	D3	Q5P6	K2	R336	K9	R569	G2	R821	H11		
C337	H8	C564	M3	C810	I12	D155	D9	L505	M3	Q5S1	K4	R337	K10	R570	D3	R822	I11		

SECTION 5
REPLACEMENT PARTS LIST

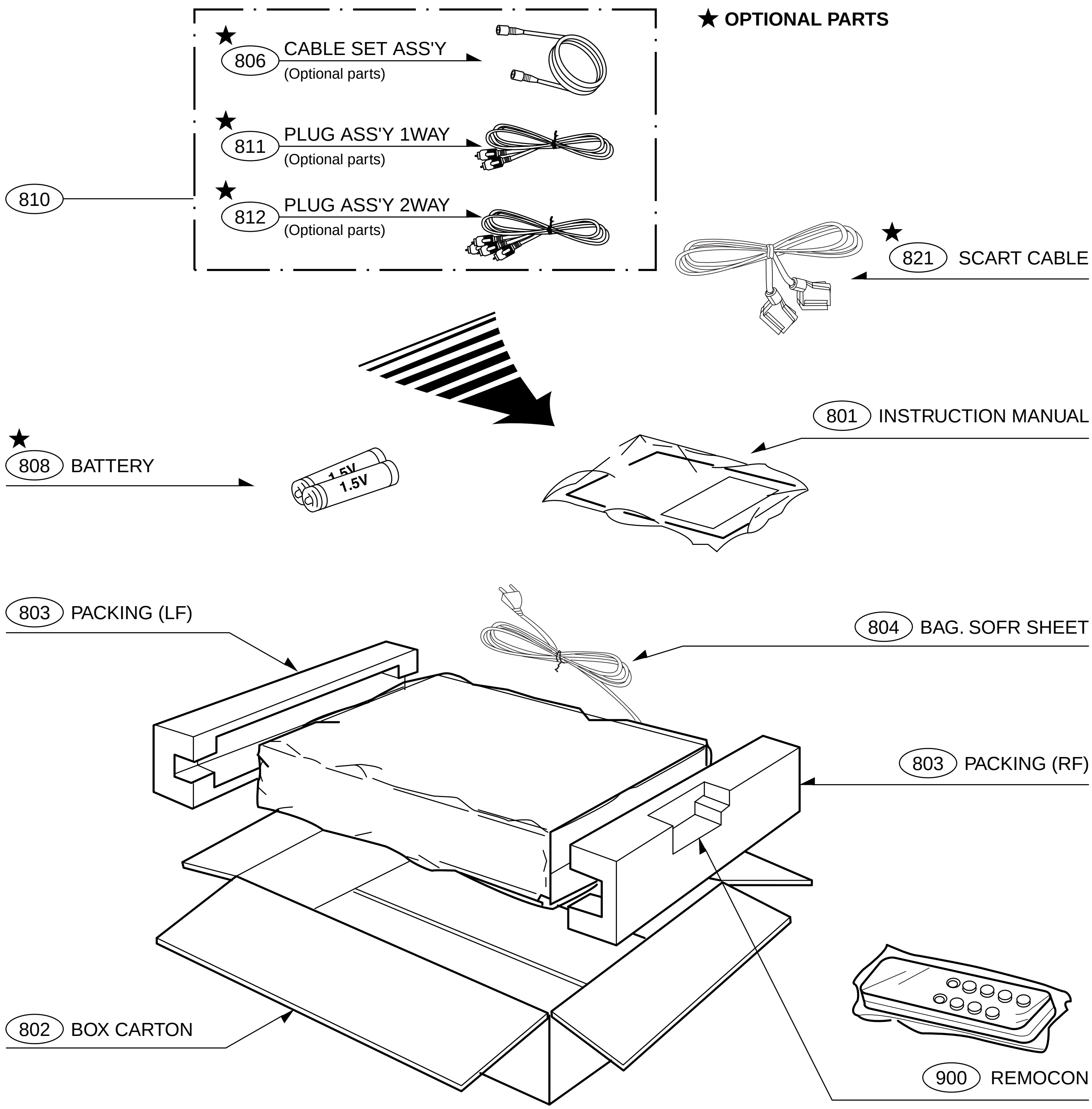
SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

5.1 EXPLODED VIEW

5.1.1 PACKING AND ACCESSORY ASSEMBLY <M1>

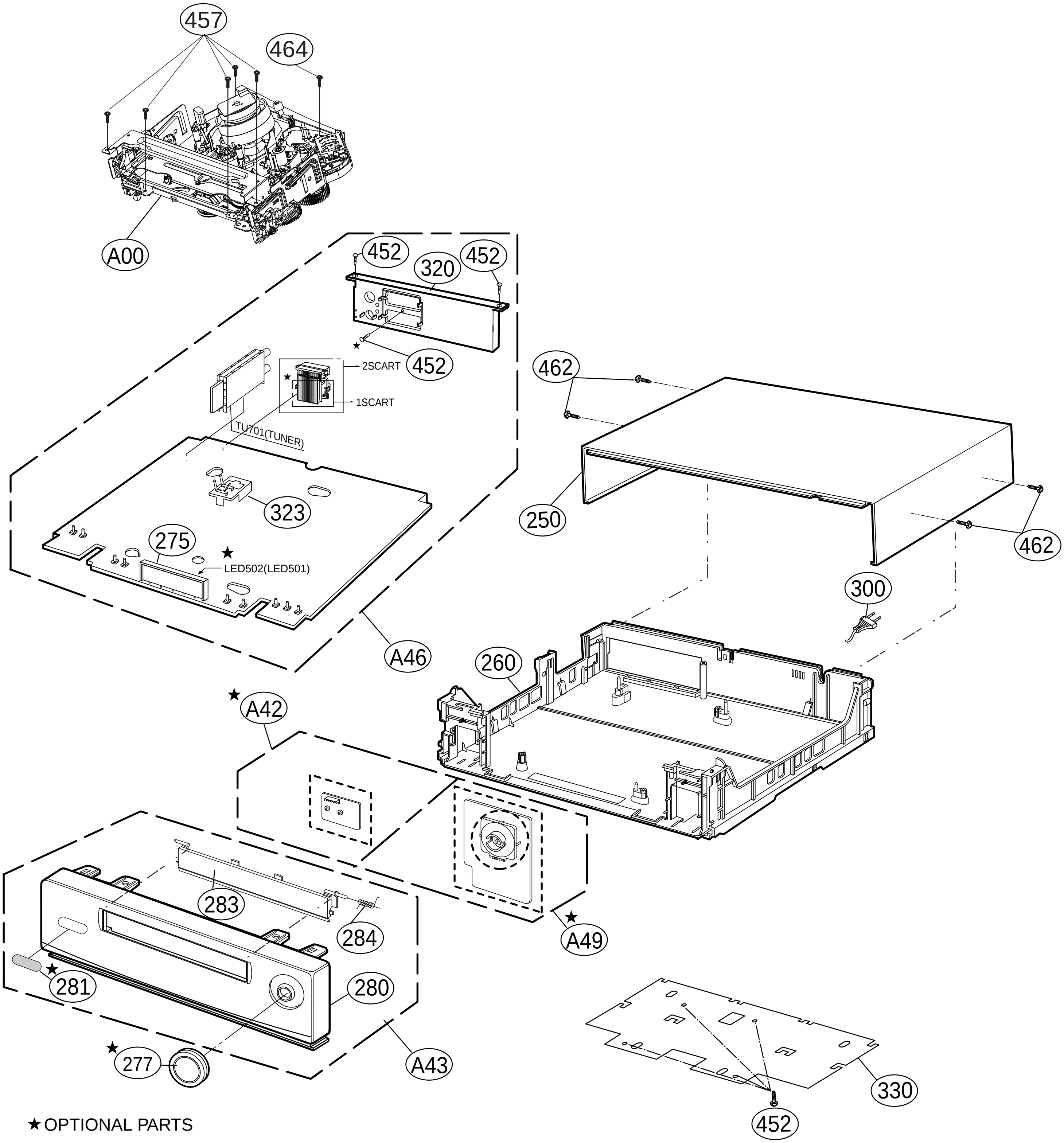
The instruction manual to be provided with this product will differ according to the destination.



5.1.2 FINAL ASSEMBLY <M2>

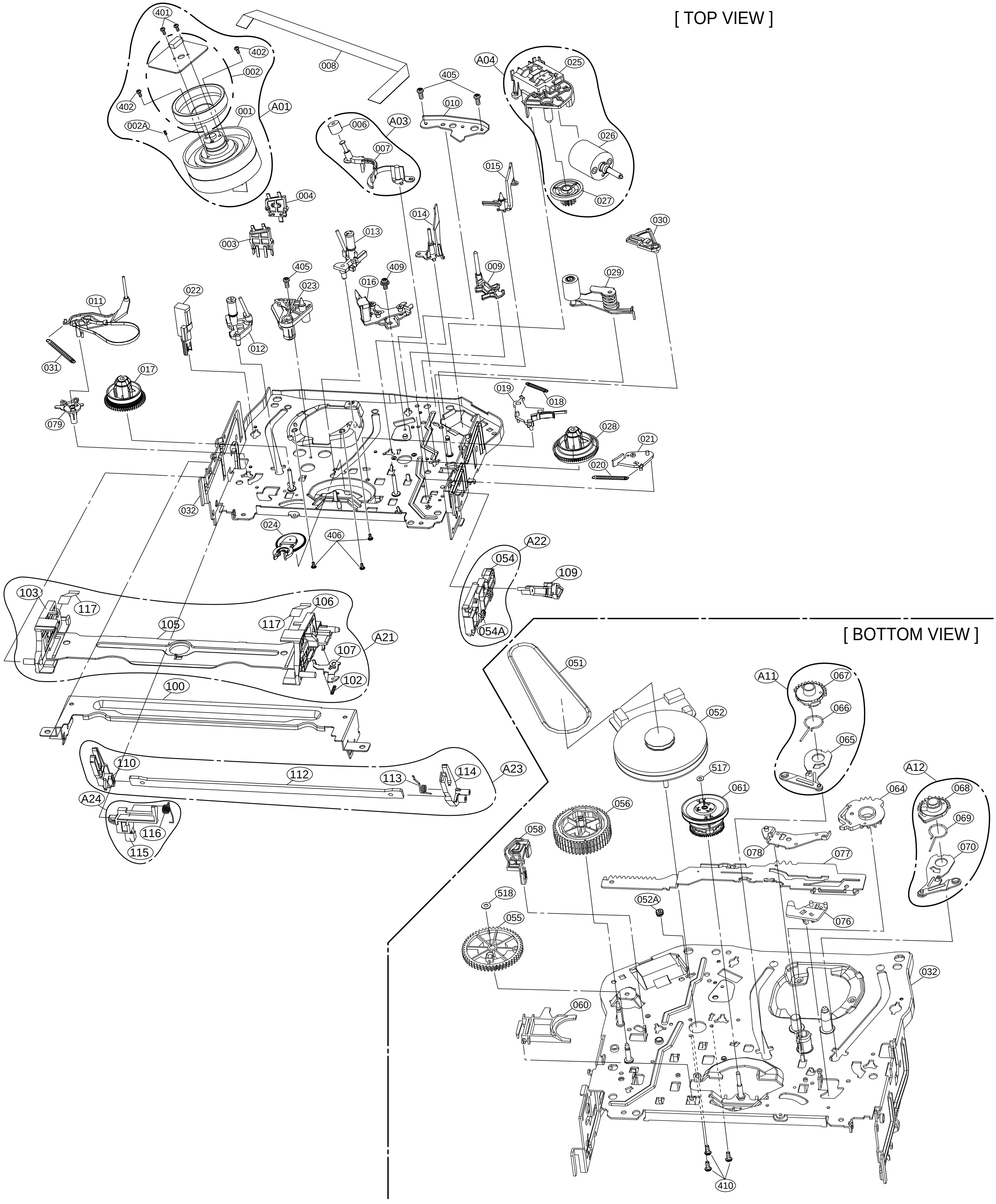
BEWARE OF BOGUS PARTS

Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.



★OPTIONAL PARTS

5.1.3 MECHANISM ASSEMBLY <M4>



MODEL	MARK	MODEL	MARK	MODEL	MARK
HR-J285EU	A	HR-J595MS	F	HR-J282EU	K
HR-J290EU	B	HR-J295MS	G	HR-J283EU	L
HR-J585EU	C	HR-J595EK	H	HR-J582EU	M
HR-J590EU	D	HR-J295EK	I	HR-J583EU	N
HR-J593EU	E	HR-J293EU	J		

5.2 REPLACEMENT PARTS LIST

PACKING AND ACCESSORY ASSEMBLY <M1>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	ABCDEFGHIJKLMN
	801	LG-3835RP0075B	INSTRUCTION ASSEMBLY	(EN,GE,FR,IT,DU)	A C
	801	LG-3835RP0075C	INSTRUCTION ASSEMBLY	(PT,GR,SP)	A C
	801	LG-3835RP0075D	INSTRUCTION ASSEMBLY	(SW,DA,FI,NO,GE)	A C
	801	LG-3835RP0075E	INSTRUCTION ASSEMBLY	(EN,GE,FR,IT,DU)	B DE J
	801	LG-3835RP0075F	INSTRUCTION ASSEMBLY	(PT,GR,SP)	B DE J
	801	LG-3835RP0075G	INSTRUCTION ASSEMBLY	(SW,DA,FI,NO,GE)	B DE J
	801	LG-3835RP0075H	INSTRUCTION ASSEMBLY	(FR)	FG
	801	LG-3835RP0075K	INSTRUCTION ASSEMBLY	(EN)	I
	801	LG-3835RP0075L	INSTRUCTION ASSEMBLY	(PO,CZ,HU)	K M
	801	LG-3835RP0075M	INSTRUCTION ASSEMBLY	(EN)	H
	801	LG-3835RP0075N	INSTRUCTION ASSEMBLY	(PO,CZ,HU)	L N
	802	LG-3890R-H768D	BOX	EDJ200P NA3GJJX SW3-A 0.858 4	ABCDEFGHIJKLMN
	803	LG-3920R-0067A	PACKING	AF999NS 0.02 65 EPS 12 1190 23	ABCDEFGHIJKLMN
	804	LG-292-053A	BAG	SOFT(VCP)	ABCD FG K
	804	LG-3880R-H001A	BAG	HDPE 500 500 0.03 VCR MIDI	E HIJ LMN
	806	LG-6850R-CAA26	CABLE,COAXIAL	1200M/M PAL-PAL DOUBLE SHIELD	ABCDEFGHIJKLMN
	808	—	BATTERY,MANGANESE	AAAM(R03) SEOTONG 1-5 V - 1PA	ABCDEFGHIJKLMN
	810	LG-6851RP0003A	CABLE ASSY,RF	CABLE ASSY,RF/SCART/RCA USING	ABCDEFGHIJKLMN
	821	LG-6850R-SMA21	CABLE,COAXIAL	14PIN 1200M/M SCART-SCART DOUB	FG
	900	LG-6711R1P037A	REMOTE CONTROLLER ASSEMBLY	N5 NOR EDJ209P NA3GJJX JVC W/S	B D FGHI L N
	900	LG-6711R1P037B	REMOTE CONTROLLER ASSEMBLY	N5 EDJ200P NAEGJJX JVC W/O SHO	A C K M
	900	LG-6711R1P037C	REMOTE CONTROLLER ASSEMBLY	N5 EDJ209P NA6NJJY JVC W/SHOWV	E J

FINAL ASSEMBLY <M2>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	ABCDEFGHIJKLMN
	A00	LG-6721RF0700D	DECK ASSEMBLY,VIDEO	D35(N) DI(2HD, SP ONLY, AHC(X)	AB G JKL
	A00	LG-6721RF0710D	DECK ASSEMBLY,VIDEO	D35(N) DI (2HD, NP, AHC(X), B/	I
	A00	LG-6721RF0750D	DECK ASSEMBLY,VIDEO	D35(N) DI (4HF, PAL, AHC(X), B	CDEF H MN
	A43	LG-3721R-F253A	PANEL ASSEMBLY,FRONT	EDJ200P (J285EU)	A
	A43	LG-3721R-F253B	PANEL ASSEMBLY,FRONT	EDJ209P (J290EU)	B
	A43	LG-3721R-F253C	PANEL ASSEMBLY,FRONT	EDJ904NS (J595MS)	F
	A43	LG-3721R-F253D	PANEL ASSEMBLY,FRONT	EDJ900NP (J585EU)	C
	A43	LG-3721R-F253E	PANEL ASSEMBLY,FRONT	EDJ209P (J293EU)	J
	A43	LG-3721R-F253F	PANEL ASSEMBLY,FRONT	EDJ909NP (J590EU)	D
	A43	LG-3721R-F253G	PANEL ASSEMBLY,FRONT	EDJ909NP (J593EU)	E
	A43	LG-3721R-F253H	PANEL ASSEMBLY,FRONT	EDJ204S (J295MS)	G
	A43	LG-3721R-F253J	PANEL ASSEMBLY,FRONT	EDJ904NI(J595EK)	H
	A43	LG-3721R-F253K	PANEL ASSEMBLY,FRONT	EDJ200Y (J282EU)	K
	A43	LG-3721R-F253L	PANEL ASSEMBLY,FRONT	EDJ203Y (J283EU)	L
	A43	LG-3721R-F253M	PANEL ASSEMBLY,FRONT	EDJ203NI (J295EK)	I
	A43	LG-3721R-F253N	PANEL ASSEMBLY,FRONT	EDJ903NY (J583EU)	N
	A43	LG-3721R-F253Q	PANEL ASSEMBLY,FRONT	EDJ900NY (J582EU)	M
	A46	LG-3501R-5739A	BOARD ASSEMBLY	JVC DI EC(D) SERIES	B J
	A46	LG-3501R-5739B	BOARD ASSEMBLY	JVC DI EC(D) SERIES	A
	A46	LG-3501R-5739C	BOARD ASSEMBLY	JVC DI EC(D) SERIES	F
	A46	LG-3501R-5739D	BOARD ASSEMBLY	JVC DI EC(D) SERIES	C
	A46	LG-3501R-5739E	BOARD ASSEMBLY	JVC DI EC(D) SERIES	DE
	A46	LG-3501R-5739F	BOARD ASSEMBLY	JVC DI EC(D) SERIES	G
	A46	LG-3501R-5739G	BOARD ASSEMBLY	JVC DI EC(D) SERIES	MN
	A46	LG-3501R-5739H	BOARD ASSEMBLY	JVC DI EC(D) SERIES	H
	A46	LG-3501R-5739J	BOARD ASSEMBLY	JVC DI EC(D) SERIES	KL
	A46	LG-3501R-5739K	BOARD ASSEMBLY	JVC DI EC(D) SERIES	I
	250	LG-3110R-0128C	CASE	TOP(Q280G:B/K),SIDE	E J
	250	LG-3110R-0223G	CASE	TOP(0128 A288G SIDE SCREW 4EA	ABCD FGHI KLMN
	260	LG-3210R-0023B	FRAME	MAIN (VII-PJT, 60HR)	ABCDEFGHIJKLMN
	280	LG-3720R-F193A	PANEL,VIDEO	FRONT(B589G-SLVER)	ABCD FGHI KLMN
	280	LG-3720R-F193B	PANEL,VIDEO	FRONT (Q280G)	E J
	283	LG-3580R-V031A	DOOR,CASE	CST (VCR) (MONO-B589G-SILVER)	AB G I KL
	283	LG-3580R-V031B	DOOR,CASE	CST (VCR) (MONO-Q280G-B.K)	J
	283	LG-3580R-V031C	DOOR,CASE	CST (VCR) (HIFI-B589G-SILVER)	CD F H MN
	283	LG-3580R-V031D	DOOR,CASE	CST (VCR) (HIFI-Q280G-BK)	E
	284	LG-442-681A	SPRING	DOOR	ABCDEFGHIJKLMN
⚠	300	LG-6410RBHV01A	POWER CORD	H03VVH2-F2 X 0.75MM FILTER VOL	HI
⚠	300	LG-6410RCHP03B	POWER CORD	HIT-102/H03VVH2-F (NM) HARNESS	ABCDEFG JKLMN
	320	LG-3720R-D020A	PANEL	DISTRIBUTOR (PAL-1SCART)	A I KL
	320	LG-3720R-D020B	PANEL	DISTRIBUTOR (PAL-SCART MONO)	B G J
	320	LG-3720R-D020C	PANEL	DISTRIBUTOR (PAL-2SCART HI-FI)	DEF H
	320	LG-3720R-D020D	PANEL	DISTRIBUTOR (PAL-1SCART HI-FI)	C MN
	323	LG-3111R-0089C	CASE ASSEMBLY	PRE-AMP (02-PAL)	ABCDEFGHIJKLMN
	330	LG-3550R-0210A	COVER	BOTTOM(LARGE)	ABCDEFGHIJKLMN
	452	LG-353-051A	SCREW	SPECIAL	ABCDEFGHIJKLMN
	457	LG-353-051E	SCREW	SPECIAL (3X12)	ABCDEFGHIJKLMN
	462	LG-353-136A	SCREW	SPECIAL(FBK) (353S353A)	ABCDEFGHIJKLMN

MECHANISM ASSEMBLY <M4>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	ABCDEFGHIJKLMN
	A01	LG-6723R-0401A	DRUM(CIRC) ASSEMBLY	D35-2CH SP ONLY (8P2)	AB G JKL
	A01	LG-6723R-0401B	DRUM(CIRC) ASSEMBLY	D35-2CH SP/EP (8M2)	I
	A01	LG-6723R-0403C	DRUM(CIRC) ASSEMBLY	D35-6CH PAL (8P6C)	CDEF H MN
	A04	LG-4421R-0008A	BRAKE ASSEMBLY	RS	AB G JKL
	A04	LG-4811RF0038A	BRACKET ASSEMBLY	L/D(S)	ABCDEFGHIJKLMN
	A11	LG-4471R-0005A	GEAR ASSY	P3	ABCDEFGHIJKLMN
	A12	LG-4471R-0004A	GEAR ASSY	P2	ABCDEFGHIJKLMN
	A21	LG-4931R-0047A	HOLDER ASSY	CST	ABCDEFGHIJKLMN
	A22	LG-4471R-0006A	GEAR ASSY	RACK F/L	ABCDEFGHIJKLMN
	A23	LG-4261R-0023A	ARM ASSY	F/L	ABCDEFGHIJKLMN
	A24	LG-4510R-0046A	LEVER	ASSY SWITCH	ABCDEFGHIJKLMN
	001	LG-6723R-0304A	DRUM(CIRC) ASSEMBLY	SUB D35-2CH (8P2)	AB G JKL
	001	LG-6723R-0304B	DRUM(CIRC) ASSEMBLY	SUB D35-2CH (8M2)	I
	001	LG-6723R-0306C	DRUM(CIRC) ASSEMBLY	SUB D35-6CH (8P6C)	CDEF H MN
	002	LG-4680R-B005A	MOTOR(MECH)	DRUM I2OAL05 SEJIN-SANKYO ICLE	ABCDEFGHIJKLMN
	002A	LG-5202R00002C	BRUSH,CARBON	ASSY D33 (TIP+2 SPRING) 1.4,	ABCDEFGHIJKLMN
	003	LG-4930R-0284A	HOLDER,SHELF	FPC(6CH)	ABCDEFGHIJKLMN
	004	LG-5006R-0034A	CAP	FPC	ABCDEFGHIJKLMN
	008	LG-6850R-HG18Z	CABLE,FLAT	P=1.25 FFC UL2896(0.05X0.8) 7	ABCDEFGHIJKLMN
	009	LG-4260R-0038A	ARM	T/UP(D35)	ABCDEFGHIJKLMN
	010	LG-4810R-0125A	BRACKET	CHASSIS	ABCDEFGHIJKLMN
	011	LG-4261R-0022A	ARM ASSY	TENSION(D35)	ABCDEFGHIJKLMN
	012	LG-3041R-0037A	BASE ASSY	P2	ABCDEFGHIJKLMN
	013	LG-3041R-0038A	BASE ASSY	P3	ABCDEFGHIJKLMN
	014	LG-3041R-0039A	BASE ASSY	P4	ABCDEFGHIJKLMN
	015	LG-5870R-0005A	OPENER	LID(D35)	ABCDEFGHIJKLMN
	016	LG-3041R-0036A	BASE ASSEMBLY	A/C HEAD (ALPS)	ABCDEFGHIJKLMN
	017	LG-4408R-0003A	REEL	S	ABCDEFGHIJKLMN
	018	LG-4970R-0140A	SPRING	COIL RS D35	ABCDEFGHIJKLMN
	019	LG-4421R-0008A	BRAKE ASSEMBLY	RS	CDEF HI MN
	020	LG-4970R-0128A	SPRING	COIL D35 (TB)	ABCDEFGHIJKLMN
	021	LG-4421R-0006A	BRAKE ASSY	T	ABCDEFGHIJKLMN
	022	LG-6520D00002A	HEAD(CIRC)	D35 FE ST FE HEAD	ABCDEFGHIJKLMN
	023	LG-3040R-0057A	BASE	LOADING	ABCDEFGHIJKLMN
	024	LG-4261R-0029A	ARM ASSEMBLY	IDLER (N)	ABCDEFGHIJKLMN
	025	LG-4810R-0118A	BRACKET	L/D(S)	ABCDEFGHIJKLMN
	026	LG-4680R-D002A	MOTOR(MECH)	LOADING MDB2B66 SANKYO D35 ASP	ABCDEFGHIJKLMN
	027	LG-4470R-0093A	GEAR	WHEEL	ABCDEFGHIJKLMN
	028	LG-4408R-0004A	REEL	T	ABCDEFGHIJKLMN
	029	LG-4261R-0019A	ARM ASSY	PINCH	ABCDEFGHIJKLMN
	030	LG-4510R-0043A	LEVER	T/UP	ABCDEFGHIJKLMN
	031	LG-4970R-0123A	SPRING	COIL TENSION(D35)	ABCDEFGHIJKLMN
	032	LG-3141R-0040A	CHASSIS ASSY	D35	ABCDEFGHIJKLMN
	051	LG-4400R-0005A	BELT	CAPSTAN	ABCDEFGHIJKLMN
	052	LG-4680R-A007A	MOTOR(MECH)	CAPSTAN F2QVB06 SANKYO D35 ASR	ABCDEFGHIJKLMN
	052A	LG-4980R-0023A	SUPPORTER	CAPSTAN(D35)	ABCDEFGHIJKLMN
	054	LG-4470R-0100A	GEAR	RACK F/L	ABCDEFGHIJKLMN
	054A	LG-4970R-0124B	SPRING	COIL D35 (RACK F/L)	ABCDEFGHIJKLMN
	055	LG-4470R-0097A	GEAR	DRIVE(D35)	ABCDEFGHIJKLMN
	056	LG-4470R-0096A	GEAR	CAM(D35)	ABCDEFGHIJKLMN
	058	LG-4421R-0007A	BRAKE ASSY	CAPSTAN	ABCDEFGH JKLMN
	060	LG-4510R-0040A	LEVER	F/R(D35)	ABCDEFGHIJKLMN
	061	LG-4265R-0006A	CLUTCH ASSEMBLY	D35 (N)	ABCDEFGHIJKLMN
	064	LG-4470R-0098A	GEAR	SECTOR(D35)	ABCDEFGHIJKLMN
	065	LG-4261R-0021A	ARM ASSY	P3	ABCDEFGHIJKLMN
	066	LG-4970R-0122A	SPRING	COIL D35	ABCDEFGHIJKLMN
	067	LG-4470R-0095A	GEAR	P3	ABCDEFGHIJKLMN
	068	LG-4470R-0094A	GEAR	P2	ABCDEFGHIJKLMN
	069	LG-4970R-0122A	SPRING	COIL D35	ABCDEFGHIJKLMN
	070	LG-4261R-0020A	ARM ASSY	P2	ABCDEFGHIJKLMN
	076	LG-4510R-0047A	LEVER	SPRING	ABCDEFGHIJKLMN
	077	LG-3300R-M116A	PLATE	SLIDER	ABCDEFGHIJKLMN
	078	LG-4510R-0041A	LEVER	TENSION	ABCDEFGHIJKLMN
	079	LG-3040R-0056A	BASE	TENSION(D35)	ABCDEFGHIJKLMN
	100	LG-3301R-M022A	PLATE ASSEMBLY	TOP	ABCDEFGHIJKLMN
	102	LG-4970R-0130A	SPRING	COIL D35 (STOPPER)	ABCDEFGHIJKLMN
	103	LG-4930R-0276A	HOLDER,SHELF	SIDE(L)	ABCDEFGHIJKLMN
	105	LG-4930R-0274A	HOLDER,SHELF	CST	ABCDEFGHIJKLMN
	106	LG-4930R-0275A	HOLDER,SHELF	SIDE(R)	ABCDEFGHIJKLMN
	107	LG-4510R-0044A	LEVER	STOPPER	ABCDEFGHIJKLMN
	109	LG-5870R-0004A	OPENER	DOOR	ABCDEFGHIJKLMN
	110	LG-4260R-0035A	ARM	F/L(L)	ABCDEFGHIJKLMN
	112	LG-3070R-0002A	BODY	F/L	ABCDEFGHIJKLMN
	113	LG-4970R-0127A	SPRING	COIL D35 (F/L(R))	ABCDEFGHIJKLMN
	114	LG-4260R-0036A	ARM	F/L(R)	ABCDEFGHIJKLMN
	115	LG-4510R-0042A	LEVER	SWITCH	ABCDEFGHIJKLMN
	116	LG-4970R-0138A	SPRING	COIL D35 SWITCH	ABCDEFGHIJKLMN
	117	LG-3300R-M137A	PLATE	SPRING CST	ABCDEFGHIJKLMN
	401	LG-1MEC0261518	SCREW MACHINE,PAN HEAD SPR W	D2.6 L4.5 MSWR3/FZY	ABCDEFGHIJKLMN
	402	LG-1MPC0261418	SCREW MACHINE,PAN HEAD	D2.6 L4.0 MSWR3/FZY	ABCDEFGHIJKLMN
	405	LG-1SZZR-0031B	SCREW,DRAWING	D2.6 L5.8 SWRCH16A/FZY TAP	ABCDEFGHIJKLMN
	406	LG-1MEC0302018	PAN HEAD MACHINE SCREW S/W +	D3.0 L6.0 MSWR3/FZY	ABCDEFGHIJKLMN
	409	LG-1SZZR-0032B	SCREW,DRAWING	D2.6 L5.0 SWRCH18A/FZY TAP	ABCDEFGHIJKLMN
	410	LG-1APF0262218	SCREW TAP TITE(B),PAN HEAD	D2.6 L6.8 MSWR3/FZY	ABCDEFGHIJKLMN
	517	LG-1WZZR-0004D	WASHER	STOPPER	ABCDEFGHIJKLMN
	518	LG-1WZZR-0004A	WASHER	STOPPER	ABCDEFGHIJKLMN

MODEL	MARK	MODEL	MARK	MODEL	MARK
HR-J285EU	A	HR-J595MS	F	HR-J282EU	K
HR-J290EU	B	HR-J295MS	G	HR-J283EU	L
HR-J585EU	C	HR-J595EK	H	HR-J582EU	M
HR-J590EU	D	HR-J295EK	I	HR-J583EU	N
HR-J593EU	E	HR-J293EU	J		

****

MAIN BOARD ASSEMBLY <03>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	ABCDEFGHIJKLMN
	PBM00	LG-6871R-5739A	PWB(PCB) ASSEMBLY,TOTAL	EDJ209P (PCB ASSY)	B J
	PBM00	LG-6871R-5739B	PWB(PCB) ASSEMBLY,TOTAL	EDJ200P (PCB ASSY)	A
	PBM00	LG-6871R-5739C	PWB(PCB) ASSEMBLY,TOTAL	EDJ904NS (PCB ASSY)	F
	PBM00	LG-6871R-5739D	PWB(PCB) ASSEMBLY,TOTAL	EDJ900NP (PCB ASSY)	C
	PBM00	LG-6871R-5739E	PWB(PCB) ASSEMBLY,TOTAL	EDJ909NP (PCB ASSY)	DE
	PBM00	LG-6871R-5739F	PWB(PCB) ASSEMBLY,TOTAL	EC(D) SERIES (PCB ASSY)	G
	PBM00	LG-6871R-5739G	PWB(PCB) ASSEMBLY,TOTAL	EDJ SERIES (HIFI)	MN
	PBM00	LG-6871R-5739H	PWB(PCB) ASSEMBLY,TOTAL	EDJ904NI (HIFI)	H
	PBM00	LG-6871R-5739J	PWB(PCB) ASSEMBLY,TOTAL	EDJ SERIES (MONO)	KL
	PBM00	LG-6871R-5739K	PWB(PCB) ASSEMBLY,TOTAL	EDJ203I (MONO)	I
	IC101	STR-A6351	IC,POWER MANAGEMENT	STR-A6351 SANKEN 8 DIP ST SMPS	ABCDEFGHIJKLMN
⚠	IC102	LTV-817B	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	ABCDEFGHIJKLMN
	IC103	LG-0IKE431000A	IC,KEC	KIA431 3 PIN TP	ABCDEFGHIJKLMN
	IC201	LG-0ILNRSA007A	IC,LINEAR	LA70100M SANYO 30 SOP ST SECAM	FG
	IC301	LG-0ILNRSA005A	IC,LINEAR	LA71750AM SANYO 100 QFP TRAY A	ABCDEFGHIJKLMN
	IC501	LG-0IMCRHI014B	IC,MICRO CONTROLLER	HD6432197SA06F HITACHI 112 QFP	ABCDEFGHIJKLMN
	IC501	LG-0IMCRHI019A	IC,MICRO CONTROLLER	HD6432197SA09F HITACHI 112P QF	KLMN
	IC503	LG-0IAL241600B	IC,ATMEL	AT24C16 - - - -	ABCDEFGHIJKLMN
	IC504	LG-0IKE703100A	IC,KEC	KIA7031P 3P 3.1V RESET(TAPING)	ABCDEFGHIJKLMN
	IC505	LG-0IKE704200B	IC,KEC	KIA7042P 3P 4.2V RESET(TAPING)	ABCDEFGHIJKLMN
	IC751	LG-0IIT341700B	IC,ITT	MSP3417D-QG QFP44 BK NICAM+A2	CDEF H MN
	IC7V1	LG-0ILNRMN001A	IC,LINEAR	SDA5650 MICRONAS 14 DIP ST VPS	B DE J
	IC801	LG-0IPH960500A	IC,PHILIPS	TDA9605H QFP44 BK HIFI AMP+HIF	CDEF H MN
	IC901	MM1443XJ	IC,MITSUMI	MM1443XJ SSOP-34 TP CANAL S/W	B G J
	Q151	LG-0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	ABCDEFGHIJKLMN
	Q152	LG-0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	ABCDEFGHIJKLMN
	Q154	LG-0TR126809BA	TRANSISTOR,BIPOLARS	KTA1268-BL TP KEC	ABCDEFGHIJKLMN
	Q155	LG-0TR320509AB	TRANSISTOR	KTC3205-TP-Y (KTC2236A)KEC	ABCDEFGHIJKLMN
	Q157	LG-0TR120309AE	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K	ABCDEFGHIJKLMN
	Q162	LG-0TR534309BA	TRANSISTOR	2SC5343-L TP AUK TO92	ABCDEFGHIJKLMN
	Q163	LG-0TR120109AC	TRANSISTOR	SRC1201 TP AUK TO92 4.7K,4.7K	ABCDEFGHIJKLMN
	Q164	LG-0TR120309AE	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K	ABCDEFGHIJKLMN
	Q165	LG-0TR220309AF	TRANSISTOR	SRA2203 TP AUK TO92 22K,22K	ABCDEFGHIJKLMN
	Q166	LG-0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	ABCDEFGHIJKLMN
	Q301	LG-0TR534309BA	TRANSISTOR	2SC5343-L TP AUK TO92	ABCDEFGHIJKLMN
	Q302	LG-0TR198009CA	TRANSISTOR	2SA1980G TP AUK TO92	ABCDEFGHIJKLMN
	Q303	LG-0TR534309BA	TRANSISTOR	2SC5343-L TP AUK TO92	ABCDEFGHIJKLMN
	Q304	LG-0TR534309BA	TRANSISTOR	2SC5343-L TP AUK TO92	ABCDEFGHIJKLMN
	Q305	LG-0TR198009CA	TRANSISTOR	2SA1980G TP AUK TO92	ABCDEFGHIJKLMN
	Q306	LG-0TR534409AA	TRANSISTOR	2SC5344Y TP	ABCDEFGHIJKLMN
	Q307	LG-0TR198009CA	TRANSISTOR	2SA1980G TP AUK TO92	B DEFGH J
	Q308	LG-0TR198009CA	TRANSISTOR	2SA1980G TP AUK TO92	ABCDEFGHIJKLMN
	Q309	LG-0TR198009CA	TRANSISTOR	2SA1980G TP AUK TO92	ABCDEFGHIJKLMN
	Q501	LG-0TR534309BA	TRANSISTOR	2SC5343-L TP AUK TO92	ABCDEFGHIJKLMN
	Q502	LG-0TR534309BA	TRANSISTOR	2SC5343-L TP AUK TO92	ABCDEFGHIJKLMN
	Q503	LG-0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	ABCDEFGHIJKLMN
	Q504	LG-0TR534309BA	TRANSISTOR	2SC5343-L TP AUK TO92	ABCDEFGHIJKLMN
	Q514	LG-0TR120309AE	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K	ABCDEFGHIJKLMN
	Q515	LG-0TR120309AE	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K	ABCDEFGHIJKLMN
	Q5P2	LG-0TR120309AE	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K	ABCDEFGHIJKLMN
	Q5P3	LG-0TR120309AE	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K	ABCDEFGHIJKLMN
	Q5P4	LG-0TR120309AE	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K	ABCDEFGHIJKLMN
	Q5P5	LG-0TR120309AE	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K	ABCDEFGHIJKLMN
	Q5S1	LG-0TR534309BA	TRANSISTOR	2SC5343-L TP AUK TO92	ABCDEFGHIJKLMN
	Q7S1	LG-0TR534309BA	TRANSISTOR	2SC5343-L TP AUK TO92	FG
	Q901	LG-0TR120309AE	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K	ABCDEFGHIJKLMN
	Q902	LG-0TR220309AF	TRANSISTOR	SRA2203 TP AUK TO92 22K,22K	ABCDEFGHIJKLMN
	Q903	LG-0TR120309AE	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K	ABCDEFGHIJKLMN
	Q906	LG-0TR534309BA	TRANSISTOR	2SC5343-L TP AUK TO92	ABCDEFGHIJKLMN
⚠	BD101	S1WBA60	DIODE	S1WBA60(1A 600V) SHIDENKEN	ABCDEFGHIJKLMN
	D102	EG01CW	DIODE,RECTIFIER	EG01CW(R-FORM 5MM) TP SANKEN	ABCDEFGHIJKLMN
	D103	LG-0DR180209AA	DIODE,RECTIFIER	ERA18-02KFRB TP FUJI DO204AL 2	ABCDEFGHIJKLMN
	D104	1SS133DIODE,SWITCHING		1SS133 DETECT,SW TP	ABCDEFGHIJKLMN
	D105	LG-0DR104009BA	DIODE,RECTIFIER	RL104F TP RECTRON NON 400V 1A	ABCDEFGHIJKLMN
	D106	1N5822DIODE,RECTIFIER		1N5822 BK RECTRON DO201AD 40V	ABCDEFGHIJKLMN
	D109	LG-0DR202000AB	DIODE,RECTIFIER	HER202 BK RECTRON NON 100V 2A	ABCDEFGHIJKLMN
	D155	LG-0DR104009AB	DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR	ABCDEFGHIJKLMN
	D156	1SS133	DIODE,SWITCHING	1SS133 DETECT,SW TP	ABCDEFGHIJKLMN
	D159	1SS133	DIODE,SWITCHING	1SS133 DETECT,SW TP	ABCDEFGHIJKLMN
	D160	1SS133	DIODE,SWITCHING	1SS133 DETECT,SW TP	ABCDEFGHIJKLMN
	D301	1SS133	DIODE,SWITCHING	1SS133 DETECT,SW TP	ABCDEFGHIJKLMN
	D502	1SS133	DIODE,SWITCHING	1SS133 DETECT,SW TP	ABCDEFGHIJKLMN
	D509	1SS133	DIODE,SWITCHING	1SS133 DETECT,SW TP	ABCDEFGHIJKLMN
	D901	1SS133	DIODE,SWITCHING	1SS133 DETECT,SW TP	ABCDEFGHIJKLMN
	D902	1SS133	DIODE,SWITCHING	1SS133 DETECT,SW TP	ABCDEFGHIJKLMN
	D903	1SS133	DIODE,SWITCHING	1SS133 DETECT,SW TP	ABCDEFGHIJKLMN
	D904	1SS133	DIODE,SWITCHING	1SS133 DETECT,SW TP	H
	ZD151	MTZ13CT-77	DIODE,ZENERS	MTZ13C TP ROHM-K	ABCDEFGHIJKLMN
	ZD503	LG-0DZ622609CA	DIODE,ZENER	GDZJ6.2C 26MM TP GRANDE DO34 0	ABCDEFGHIJKLMN
	ZD801	UZ5.6BSB-T2	DIODE,ZENER	UZ-5.6BSB 26MM TP PYUNG CHANG	CDEF H MN
	ZD802	UZ5.6BSB-T2	DIODE,ZENER	UZ-5.6BSB 26MM TP PYUNG CHANG	CDEF H MN
	ZD803	MTZ13AT-77	DIODE,ZENER	MTZ13A TP ROHM-K	CDEF H MN
	ZD804	MTZ13AT-77	DIODE,ZENER	MTZ13A TP ROHM-K	CDEF H MN
⚠	C101	LG-624-088F	CAPACITOR,DRAWING	PCX2 275V 0.1UF,M (PILKO)	ABCDEFGHIJ
⚠	C101	LG-624-088L	CAPACITOR,DRAWING	435D SUNIL ELECTRONICS 0.1UF/2	KLMN
⚠	C102	LG-624-088F	CAPACITOR,DRAWING	PCX2 275V 0.1UF,M (PILKO)	ABCDEFGHIJ
⚠	C102	LG-624-088L	CAPACITOR,DRAWING	435D SUNIL ELECTRONICS 0.1UF/2	KLMN
	C103	LG-0CE476CU611	CAPACITOR,AL.ELECTROLYTIC	47UF SHL,SD 400V M FL BK7.5	ABCDEFGHIJKLMN
	C105	LG-0CQ1031Y519	CAPACITOR,POLYESTER	0.01UF D 630V K PE NI TP	ABCDEFGHIJKLMN
	C106	LG-624-087B	CAPACITOR	HIGH-VOL 100P/1KV SMPS SAMHWA	ABCDEFGHIJKLMN
	C109	QET41HM-106	CAPACITOR,FIXED ELECTROLYTIC	10M SRA 50V M FM5 TP(5)	ABCDEFGHIJKLMN
⚠	C112	LG-0CG3320U630	CAPACITOR,SEMI CERAMIC	3300 PF 400V M E R(NK,AD,SD)	ABCDEFGHIJKLMN
⚠	C113	LG-0CG1010U510	CAPACITOR,SEMI CERAMIC	100 PF 400V K B R (NK,AD,SD)	ABCDEFGHIJKLMN
	C114	LG-0CQ4732K409	CAPACITOR,FIXED FILM	0.047UF S 50V J PE TP	ABCDEFGHIJKLMN
	C115	LG-624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	ABCDEFGHIJKLMN
	C116	LG-0CE108BF630	CAPACITOR,FIXED ELECTROLYTIC	1000UF KME 16V M FM5 BULK	ABCDEFGHIJKLMN
	C117	LG-624-082H	CAPACITOR	CE 1000UF/10V SHL(10*12.5)T/P	ABCDEFGHIJKLMN
	C120	LG-0CE477BH630	CAPACITOR,AL.ELECTROLYTIC	470UF KME TYPE 25V M FM5 BULK	ABCDEFGHIJKLMN
	C121	LG-0CE227CH618	CAPACITOR,FIXED ELECTROLYTIC	220UF SHL,SD 25V 20% FL TP 5	ABCDEFGHIJKLMN
	C127	LG-0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	ABCDEFGHIJKLMN
	C135	LG-0CN4710K518	CAPACITOR TUBULA(HIGH DIELE)	470P 50V K B TA26	ABCDEFGHIJKLMN
	C153	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	ABCDEFGHIJKLMN
	C190	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	ABCDEFGHIJKLMN
	C201	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	FG
	C202	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	FG
	C203	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	FG
	C204	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	FG
	C205	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	FG
	C206	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	FG
	C207	QET41HM-474	CAPACITOR,ELECTROLYTIC	0.47M SRA 50V M FM5 TP(5)	FG
	C208	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	FG
	C209	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	FG
	C210	QET41HM-474	CAPACITOR,ELECTROLYTIC	0.47M SRA 50V M FM5 TP(5)	FG
	C211	LG-0CN2220F668	CAPACITOR,TUBULAR(HIGH DIELEC)	2200P 16V M X TA26	FG
	C212	LG-0CN2220F668	CAPACITOR,TUBULAR(HIGH DIELEC)	2200P 16V M X TA26	FG
	C213	QET41HM-225	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	FG
	C214	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	FG
	C215	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	FG
	C216	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	FG
	C301	QET41HM-475	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	ABCDEFGHIJKLMN
	C302	QET41CM-226	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	ABCDEFGHIJKLMN
	C303	LG-0CN1220F668	CAPACITOR TUBULA(HIGH DIELE)	1200P 16V M X TA26	ABCDEFGHIJKLMN
	C304	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	ABCDEFGHIJKLMN
	C305	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHIJKLMN
	C306	LG-0CN1220F668	CAPACITOR TUBULA(HIGH DIELE)	1200P 16V M X TA26	ABCDEFGHIJKLMN
	C307	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHIJKLMN
	C308	LG-0CQ1532K409	CAPACITOR,FIXED FILM	0.015UF S 50V J PE TP	ABCDEFGHIJKLMN
	C309	LG-0CN1210K518	CAPACITOR TUBULA(HIGH DIELE)	120P 50V K B TA26	ABCDEFGHIJKLMN
	C310	LG-0CQ1032K409	CAPACITOR,POLYESTER(MYLAR)	0.01UF S 50V J PE TP	ABCDEFGHIJKLMN
	C311	LG-0CE4765K618	CAPACITOR,AL.ELECTROLYTIC	47UF SR,SV 50V M FL TP 5	ABCDEFGHIJKLMN
	C312	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHIJKLMN
	C313	LG-0CQ2232L559	CAPACITOR,POLYESTER	0.022UF S 63V K PP NI TP5	ABCDEFGHIJKLMN
	C314	QET41CM-226	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	ABCDEFGHIJKLMN
	C315	LG-0CE2253K636	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRE,SE 50V 20% FM5 BP(D)	ABCDEFGHIJKLMN
	C316	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	ABCDEFGHIJKLMN
	C317	LG-0CN8220F668	CAPACITOR,TUBULAR(HIGH DIELEC)	8200P 16V M X TA26	ABCDEFGHIJKLMN
	C318	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHIJKLMN
	C319	LG-0CQ1032K409	CAPACITOR,POLYESTER(MYLAR)	0.01UF S 50V J PE TP	ABCDEFGHIJKLMN
	C320	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHIJKLMN
	C321	LG-0CX6800K408	CAPACITOR TUBULA(T.C)	68P 50V J SL TA26	ABCDEFGHIJKLMN
	C322	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	ABCDEFGHIJKLMN
	C323	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	ABCDEFGHIJKLMN
	C324	QET41HM-475	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	ABCDEFGHIJKLMN
	C325	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	ABCDEFGHIJKLMN
	C326	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHIJKLMN
	C327	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHIJKLMN
	C328	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHIJKLMN
	C329	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHIJKLMN
	C330	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHIJKLMN
	C331	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	ABCDEFGHIJKLMN
	C333	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	ABCDEFGHIJKLMN
	C334	LG-0CN4730K948	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	ABCDEFGHIJKLMN
	C335	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHIJKLMN
	C336	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	ABCDEFGHIJKLMN
	C337	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHIJKLMN
	C338	LG-0CN4730K948	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	ABCDEFGHIJKLMN
	C339	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHIJKLMN
	C340	LG-0CN4730K948	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	ABCDEFGHIJKLMN
	C341	LG-0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	ABCDEFGHIJKLMN
	C342	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHIJKLMN
	C343	LG-0CN4730K948	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	ABCDEFGHIJKLMN

MODEL	MARK	MODEL	MARK	MODEL	MARK
HR-J285EU	A	HR-J595MS	F	HR-J282EU	K
HR-J290EU	B	HR-J295MS	G	HR-J283EU	L
HR-J585EU	C	HR-J595EK	H	HR-J582EU	M
HR-J590EU	D	HR-J295EK	I	HR-J583EU	N
HR-J593EU	E	HR-J293EU	J		

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	ABCDEFGHI JKLMN
	C344	LG-0CN1010K518	CAPACITOR,TUBULAR(HIGH DIELEC)	100P 50V K B TA26	ABCDEFGHI JKLMN
	C345	LG-0CN4730K948	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	ABCDEFGHI JKLMN
	C346	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	ABCDEFGHI JKLMN
	C347	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHI JKLMN
	C348	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHI JKLMN
	C349	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	ABCDEFGHI JKLMN
	C353	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHI JKLMN
	C355	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHI JKLMN
	C356	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHI JKLMN
	C357	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHI JKLMN
	C358	LG-0CX6800K408	CAPACITOR TUBULA(T.C)	68P 50V J SL TA26	ABCDEFGHI JKLMN
	C359	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHI JKLMN
	C360	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHI JKLMN
	C361	LG-0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	ABCDEFGHI JKLMN
	C362	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	ABCDEFGHI JKLMN
	C363	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C364	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	ABCDEFGHI JKLMN
	C365	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	ABCDEFGHI JKLMN
	C366	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHI JKLMN
	C367	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHI JKLMN
	C368	LG-0CQ8224K409	CAPACITOR,FIXED FILM	0.0082UF TE 50V 5% PE TP5	ABCDEFGHI JKLMN
	C369	LG-0CN1010K518	CAPACITOR,TUBULAR(HIGH DIELEC)	100P 50V K B TA26	ABCDEFGHI JKLMN
	C370	LG-0CN8200K419	CAPACITOR,FIXED TUBULAR(High d	82PF D 50V 5% B(Y5P) TA52	ABCDEFGHI JKLMN
	C371	LG-0CN8200K419	CAPACITOR,FIXED TUBULAR(High d	82PF D 50V 5% B(Y5P) TA52	ABCDEFGHI JKLMN
	C372	LG-0CN8200K419	CAPACITOR,FIXED TUBULAR(High d	82PF D 50V 5% B(Y5P) TA52	ABCDEFGHI JKLMN
	C373	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHI JKLMN
	C375	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	ABCDEFGHI JKLMN
	C500	LG-0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	B DE J
	C500	LG-624-074A	CAPACITOR	SUPER CAP 0.047F/5.5V T/P S/S	A C FGHI KLMN
	C501	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHI JKLMN
	C502	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	ABCDEFGHI JKLMN
	C503	QET40JM-227	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	ABCDEFGHI JKLMN
	C504	QET40JM-227	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	ABCDEFGHI JKLMN
	C505	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	ABCDEFGHI JKLMN
	C506	LG-0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	ABCDEFGHI JKLMN
	C508	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C509	LG-0CC2200K415	CAPACITOR,CERAMIC(TEMP COMP)	22P 50V J NP0 TS	ABCDEFGHI JKLMN
	C510	QET40JM-227	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	ABCDEFGHI JKLMN
	C511	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHI JKLMN
	C512	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	ABCDEFGHI JKLMN
	C513	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	ABCDEFGHI JKLMN
	C514	LG-0CC1200K415	CAPACITOR,CERAMIC(TEMP COMP)	12P 50V J NP0 TS	ABCDEFGHI JKLMN
	C515	LG-0CC1500K415	CAPACITOR,CERAMIC(TEMP COMP)	15P 50V J NP0 TS	ABCDEFGHI JKLMN
	C516	LG-0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	ABCDEFGHI JKLMN
	C518	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C519	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHI JKLMN
	C520	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	ABCDEFGHI JKLMN
	C523	QET41HM-225	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	ABCDEFGHI JKLMN
	C524	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	ABCDEFGHI JKLMN
	C525	QET40JM-227	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	ABCDEFGHI JKLMN
	C526	LG-0CE4764J638	CAPACITOR,AL.ELECTROLYTIC	47UF SRA,SS 35V M FM5 TP 5	ABCDEFGHI JKLMN
	C527	LG-0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	ABCDEFGHI JKLMN
	C533	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	ABCDEFGHI JKLMN
	C534	QET41HM-475	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	ABCDEFGHI JKLMN
	C535	QET41HM-475	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	ABCDEFGHI JKLMN
	C543	LG-0CN2220F668	CAPACITOR,TUBULAR(HIGH DIELEC)	2200P 16V M X TA26	ABCDEFGHI JKLMN
	C544	LG-0CQ4732K409	CAPACITOR,FIXED FILM	0.047UF S 50V J PE TP	ABCDEFGHI JKLMN
	C545	LG-0CN3330K518	CAPACITOR,FIXED TUBULAR(High d	0.033UF 50V K B TA26	ABCDEFGHI JKLMN
	C546	LG-0CE4764J638	CAPACITOR,AL.ELECTROLYTIC	47UF SRA,SS 35V M FM5 TP 5	ABCDEFGHI JKLMN
	C547	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C551	LG-0CQ3332K409	CAPACITOR,FIXED FILM	0.033UF S 50V J PE TP	ABCDEFGHI JKLMN
	C552	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C561	QET40JM-227	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	ABCDEFGHI JKLMN
	C564	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	ABCDEFGHI JKLMN
	C567	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	ABCDEFGHI JKLMN
	C570	LG-0CC1500K415	CAPACITOR,CERAMIC(TEMP COMP)	15P 50V J NP0 TS	ABCDEFGHI JKLMN
	C571	LG-0CC1500K415	CAPACITOR,CERAMIC(TEMP COMP)	15P 50V J NP0 TS	ABCDEFGHI JKLMN
	C575	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	ABCDEFGHI JKLMN
	C576	LG-0CC2700K415	CAPACITOR CERAMIC(TEMP COMP)	27P 50V J NP0 TP	ABCDEFGHI JKLMN
	C577	LG-0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	ABCDEFGHI JKLMN
	C578	LG-0CN2220F668	CAPACITOR,TUBULAR(HIGH DIELEC)	2200P 16V M X TA26	ABCDEFGHI JKLMN
	C581	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C582	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C583	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHI JKLMN
	C589	LG-0CQ2232K409	CAPACITOR,FIXED FILM	0.022UF S 50V J PE TP	ABCDEFGHI JKLMN
	C596	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHI JKLMN
	C5A3	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHI JKLMN
	C5A4	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C5A5	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHI JKLMN
	C5G2	LG-0CE1086C638	CAPACITOR,FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM	ABCDEFGHI JKLMN
	C5G3	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C5K1	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHI JKLMN
	C5P1	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C5P2	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C5R1	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	ABCDEFGHI JKLMN
	C5R2	LG-0CN6810K518	CAPACITOR TUBULA(HIGH DIELE)	680P 50V K B TA26	ABCDEFGHI JKLMN
	C5S1	LG-0CX4300K408	CAPACITOR TUBULA(T.C)	43P 50V J SL TA26	ABCDEFGHI JKLMN
	C5S3	LG-0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	ABCDEFGHI JKLMN
	C701	QET41HM-475	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	ABCDEFGHI JKLMN
	C703	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	FG
	C704	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	ABCDEFGHI JKLMN
	C705	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C706	LG-0CE4775C618	CAPACITOR,AL.ELECTROLYTIC	470UF SR,SV 6.3V M FL TP 5	ABCDEFGHI JKLMN
	C707	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C710	LG-0CX6800K408	CAPACITOR TUBULA(T.C)	68P 50V J SL TA26	ABCDEFGHI JKLMN
	C711	LG-0CX3300K408	CAPACITOR TUBULA(T.C)	33P 50V J SL TA26	ABCDEFGHI JKLMN
	C712	LG-0CX5R60K508	CAPACITOR TUBULA(T.C)	5.6PF 50V K SL TA26	ABCDEFGHI JKLMN
	C713	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	ABCDE HI JKLMN
	C714	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDE HI JKLMN
	C751	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	CDEF H MN
	C752	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	CDEF H MN
	C753	LG-0CX5600K408	CAPACITOR,TUBULAR(T.C)	56P 50V J SL TA26	CDEF H MN
	C754	LG-0CX5600K408	CAPACITOR,TUBULAR(T.C)	56P 50V J SL TA26	CDEF H MN
	C755	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	CDEF H MN
	C756	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	CDEF H MN
	C757	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	CDEF H MN
	C758	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	CDEF H MN
	C759	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	CDEF H MN
	C760	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	CDEF H MN
	C761	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	CDEF H MN
	C764	LG-0CN1520F668	CAPACITOR,TUBULAR(HIGH DIELEC)	1500P 16V M X TA26	CDEF H MN
	C765	LG-0CN1520F668	CAPACITOR,TUBULAR(HIGH DIELEC)	1500P 16V M X TA26	CDEF H MN
	C766	QET41HM-335	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	CDEF H MN
	C769	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	CDEF H MN
	C770	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	ABCDEFGHI JKLMN
	C771	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	CDEF H MN
	C772	LG-0CC0500K015	CAPACITOR,CERAMIC(TEMP COMP)	5P 50V C NP0 TR	CDEF H MN
	C773	LG-0CC0800K015	CAPACITOR CERAMIC(TEMP COMP)	8P 50V C NP0 TS	CDEF H MN
	C790	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	ABCDEFGHI JKLMN
	C7M2	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	ABCDE HI JKLMN
	C7M3	LG-0CX2700K408	CAPACITOR TUBULA(T.C)	27P 50V J SL TA26	ABCDE HI JKLMN
	C7M6	LG-0CX2700K408	CAPACITOR TUBULA(T.C)	27P 50V J SL TA26	ABCDE HI JKLMN
	C7S1	QET41CM-336	CAPACITOR,ELECTROLYTIC	33M SRA 16V M FM5 TP(5)	FG
	C7V1	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	B DE J
	C7V2	LG-0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	B DE J
	C7V3	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	B DE J
	C7V4	LG-0CN4730K948	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	B DE J
	C7V5	LG-0CN4730K948	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	B DE J
	C805	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	CDEF H MN
	C806	QET41HM-475	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	CDEF H MN
	C807	QET41HM-475	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	CDEF H MN
	C808	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	CDEF H MN
	C809	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	CDEF H MN
	C810	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	CDEF H MN
	C811	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	CDEF H MN
	C813	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	CDEF H MN
	C814	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	CDEF H MN
	C817	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	CDEF H MN
	C818	QET41HM-475	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	CDEF H MN
	C819	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	CDEF H MN
	C820	LG-0CQ6822K409	CAPACITOR,POLYESTER(MYLAR)	6800PF S 50V J PE TP	CDEF H MN
	C821	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	CDEF H MN
	C822	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	CDEF H MN
	C823	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	CDEF H MN
	C824	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	CDEF H MN
	C825	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	CDEF H MN
	C826	LG-0CQ6822K409	CAPACITOR,POLYESTER(MYLAR)	6800PF S 50V J PE TP	CDEF H MN
	C827	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	CDEF H MN
	C828	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	CDEF H MN
	C829	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	CDEF H MN
	C830	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	CDEF H MN
	C831	LG-0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	CDEF H MN
	C832	QET41CM-476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	CDEF H MN
	C835	QET41HM-474	CAPACITOR,ELECTROLYTIC	0.47M SRA 50V M FM5 TP(5)	CDEF H MN
	C8R1	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	CDEF H MN
	C8R2	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	CDEF H MN
	C901	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	BCDEFGH J MN
	C902	LG-0CE477CF638	CAPACITOR,AL.ELECTROLYTIC	470UF SHL TYPE 16V M FM5 TP 5	ABCDEFGHI JKLMN
	C903	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	ABCDEFGHI JKLMN
	C904	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	ABCDEFGHI JKLMN
	C908	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	A I KL
	C909	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHI JKLMN
	C911	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	B DEFGH J
	C912	LG-0CE477CF638	CAPACITOR,AL.ELECTROLYTIC	470UF SHL TYPE 16V M FM5 TP 5	B DEFGH J
	C914	LG-0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	B DEFGH J
	C915	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	B DEFGH J

MODEL	MARK	MODEL	MARK	MODEL	MARK
HR-J285EU	A	HR-J595MS	F	HR-J282EU	K
HR-J290EU	B	HR-J295MS	G	HR-J283EU	L
HR-J585EU	C	HR-J595EK	H	HR-J582EU	M
HR-J590EU	D	HR-J295EK	I	HR-J583EU	N
HR-J593EU	E	HR-J293EU	J		

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	ABCDEFGHIJKLMN
	C917	LG-0CX2700K408	CAPACITOR TUBULA(T.C)	27P 50V J SL TA26	B DEFGH J
	C920	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHIJKLMN
	C921	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHIJKLMN
	C952	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	B G J
	C956	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	ABCDEFGHIJKLMN
	C957	LG-0CX2700K408	CAPACITOR TUBULA(T.C)	27P 50V J SL TA26	ABCDEFGHIJKLMN
	C960	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHIJKLMN
	C961	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	ABCDEFGHIJKLMN
	C962	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	DEF
	C963	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	DEF
	C9A1	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	B G J
	C9A2	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	B G J
	C9A3	QET41HM-105	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	B G J
	C9A4	LG-0CN1040K948	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	B G J
	C9A5	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	B G J
	C9A6	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	B G J
	C9A7	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	B G J
	C9A8	QET41CM-106	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	B G J
	R101	LG-614-007A	RESISTOR	2.7/2W CEMENT SMPS V	ABCDEFGHIJKLMN
	R102	QRD161J-184Y	RESISTOR,FIXED CARBON FILM	180K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R103	QRD161J-680Y	RESISTOR,FIXED CARBON FILM	68 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R104	LG-0RS5602K619	RESISTOR,FIXED METAL OXIDE FIL	56K OHM 2 W 5.00% TR	ABCDEFGHIJKLMN
	R105	LG-0RF0101A619	RESISTOR,DRAWING	1 OHM 1/2 W(7.0) 5.00% TR	ABCDEFGHIJKLMN
	R106	QRD161J-184Y	RESISTOR,FIXED CARBON FILM	180K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R109	LG-0RS0350K619	RESISTOR,FIXED METAL OXIDE FIL	0.35 OHM 2 W 5.00% TR	ABCDEFGHIJKLMN
	R112	QRD161J-104Y	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R116	QRD161J-221Y	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R117	QRD161J-222Y	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R118	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R119	LG-0RN3301F408	RESISTOR,FIXED METAL FILM	3.3K OHM 1/6 W 1.00% TA26	ABCDEFGHIJKLMN
	R120	LG-0RN3001F408	RESISTOR,FIXED METAL FILM	3K OHM 1/6 W 1.00% TA26	ABCDEFGHIJKLMN
	R125	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R126	QRD161J-681Y	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R151	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R152	QRD161J-561Y	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R153	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R154	QRD161J-331Y	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R155	QRD161J-332Y	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R157	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R158	QRD161J-183Y	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R159	QRD161J-471Y	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R161	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R170	QRD161J-562Y	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R172	QRD161J-271Y	RESISTOR,FIXED CARBON FILM	270 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R173	QRD161J-271Y	RESISTOR,FIXED CARBON FILM	270 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R201	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	FG
	R202	QRD161J-124Y	RESISTOR,FIXED CARBON FILM	120K OHM 1/6 W 5.00% TA26	FG
	R204	QRD161J-473Y	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA26	FG
	R301	QRD161J-563Y	RESISTOR,FIXED CARBON FILM	56K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R303	QRD161J-183Y	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R304	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R305	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R306	QRD161J-223Y	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R307	QRD161J-222Y	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R308	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R309	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R310	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R311	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R312	QRD161J-683Y	RESISTOR,FIXED CARBON FILM	68K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R313	QRD161J-2R2	RESISTOR,FIXED CARBON FILM	2.2 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R314	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R315	QRD161J-470Y	RESISTOR,FIXED CARBON FILM	47 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R316	QRD161J-101Y	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R317	QRD161J-562Y	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R318	QRD161J-392Y	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R319	QRD161J-561Y	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R320	QRD161J-151Y	RESISTOR,FIXED CARBON FILM	150 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R321	QRD161J-122Y	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R322	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R323	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R324	QRD161J-334Y	RESISTOR,FIXED CARBON FILM	330K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R325	QRD161J-471Y	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R326	QRD161J-123Y	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R327	QRD161J-562Y	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R328	QRD161J-271Y	RESISTOR,FIXED CARBON FILM	270 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R329	QRD161J-123Y	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R330	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R331	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R334	QRD161J-272Y	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R335	QRD161J-682Y	RESISTOR,FIXED CARBON FILM	6.8K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R336	QRD161J-104Y	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R337	QRD161J-222Y	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R338	QRD161J-271Y	RESISTOR,FIXED CARBON FILM	270 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	ABCDEFGHIJKLMN
	R339	QRD161J-561Y	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R340	QRD161J-183Y	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R341	QRD161J-562Y	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R342	QRD161J-561Y	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R343	QRD161J-750Y	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26	B DEFGH J
	R344	QRD161J-471Y	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R345	QRD161J-471Y	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R346	QRD161J-101Y	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R347	QRD161J-101Y	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	B DEFGH J
	R349	QRD161J-182Y	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R350	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R351	QRD161J-824Y	RESISTOR,FIXED CARBON FILM	820K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R3A1	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R501	QRD161J-101Y	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R502	QRD161J-101Y	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R503	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R504	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R505	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R506	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R507	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R508	QRD161J-222Y	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R509	QRD161J-222Y	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R510	QRD161J-222Y	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R511	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R512	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R513	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R514	QRD161J-124Y	RESISTOR,FIXED CARBON FILM	120K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R515	QRD161J-271Y	RESISTOR,FIXED CARBON FILM	270 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R516	QRD161J-474Y	RESISTOR,FIXED CARBON FILM	470K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R517	QRD161J-471Y	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R518	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R520	QRD161J-392Y	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R521	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R522	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R523	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R524	QRD161J-220Y	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R525	QRD161J-562Y	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R526	QRD161J-562Y	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R527	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R528	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R529	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R530	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R531	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R535	QRD161J-474Y	RESISTOR,FIXED CARBON FILM	470K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R542	QRD161J-222Y	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R543	QRD161J-101Y	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R544	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R546	QRD161J-562Y	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R547	QRD161J-123Y	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R548	QRD161J-104Y	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R550	QRD161J-221Y	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R553	QRD161J-221Y	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R555	QRD161J-221Y	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R556	QRD161J-223Y	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R557	QRD161J-273Y	RESISTOR,FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R558	QRD161J-223Y	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R559	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R560	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R561	QRD161J-561Y	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R562	QRD161J-561Y	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R563	QRD161J-562Y	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R564	QRD161J-273Y	RESISTOR,FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R566	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R567	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R568	QRD161J-683Y	RESISTOR,FIXED CARBON FILM	68K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R569	QRD161J-105Y	RESISTOR,FIXED CARBON FILM	1M OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R570	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R575	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R576	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R577	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R578	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R579	QRD161J-563Y	RESISTOR,FIXED CARBON FILM	56K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R582	QRD161J-101Y	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R583	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R589	QRD161J-105Y	RESISTOR,FIXED CARBON FILM	1M OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R591	QRD161J-104Y	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R5A2	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R5A3	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R5A5	QRD161J-474Y	RESISTOR,FIXED CARBON FILM	470K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R5B3	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R5B4	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R5B5	QRD161J-101Y	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN
	R5C1	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHIJKLMN

MODEL	MARK	MODEL	MARK	MODEL	MARK
HR-J285EU	A	HR-J595MS	F	HR-J282EU	K
HR-J290EU	B	HR-J295MS	G	HR-J283EU	L
HR-J585EU	C	HR-J595EK	H	HR-J582EU	M
HR-J590EU	D	HR-J295EK	I	HR-J583EU	N
HR-J593EU	E	HR-J293EU	J		

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	ABCDEFGHI JKLMN
	R5C5	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5C6	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5C7	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5C9	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5P2	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5P3	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5R2	QRD161J-331Y	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5R3	QRD161J-331Y	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5R4	QRD161J-331Y	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5R5	QRD161J-331Y	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5R7	QRD161J-331Y	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5R8	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5S1	QRD161J-562Y	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5T1	QRD161J-182Y	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5T2	QRD161J-152Y	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5T3	QRD161J-222Y	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5T4	QRD161J-272Y	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5T5	QRD161J-392Y	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5T9	QRD161J-182Y	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5T10	QRD161J-152Y	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R5T11	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R706	QRD161J-221Y	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R707	QRD161J-221Y	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R709	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R753	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	CDEF H MN
	R754	QRD161J-332Y	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA26	CDEF H MN
	R755	QRD161J-332Y	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA26	CDEF H MN
	R758	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	CDEF H MN
	R759	QRD161J-562Y	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26	CDEF H MN
	R7M1	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDE HI JKLMN
	R7M2	QRD161J-221Y	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26	ABCDE HI JKLMN
	R7M3	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDE HI JKLMN
	R7M5	QRD161J-221Y	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26	ABCDE HI JKLMN
	R7S1	QRD161J-223Y	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA26	FG
	R7V1	QRD161J-105Y	RESISTOR,FIXED CARBON FILM	1M OHM 1/6 W 5.00% TA26	B DE J
	R7V2	QRD161J-104Y	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA26	B DE J
	R7V3	QRD161J-682Y	RESISTOR,FIXED CARBON FILM	6.8K OHM 1/6 W 5.00% TA26	B DE J
	R7V4	QRD161J-564Y	RESISTOR,FIXED CARBON FILM	560K OHM 1/6 W 5.00% TA26	B DE J
	R7V5	QRD161J-682Y	RESISTOR,FIXED CARBON FILM	6.8K OHM 1/6 W 5.00% TA26	B DE J
	R7V6	QRD161J-564Y	RESISTOR,FIXED CARBON FILM	560K OHM 1/6 W 5.00% TA26	B DE J
	R7V7	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	B DE J
	R7V8	QRD161J-101Y	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	B DE J
	R7V9	QRD161J-101Y	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	B DE J
	R801	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	CDEF H MN
	R802	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	CDEF H MN
	R817	QRD161J-335Y	RESISTOR,FIXED CARBON FILM	3.3M OHM 1/6 W 5.00% TA26	CDEF H MN
	R818	QRD161J-333Y	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA26	CDEF H MN
	R819	QRD161J-272Y	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA26	CDEF H MN
	R820	QRD161J-393Y	RESISTOR,FIXED CARBON FILM	39K OHM 1/6 W 5.00% TA26	CDEF H MN
	R821	QRD161J-272Y	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA26	CDEF H MN
	R822	QRD161J-333Y	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA26	CDEF H MN
	R823	QRD161J-471Y	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5.00% TA26	CDEF H MN
	R824	QRD161J-101Y	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	CDEF H MN
	R825	QRD161J-561Y	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26	CDEF H MN
	R826	QRD161J-182Y	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26	CDEF H MN
	R827	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	CDEF H MN
	R828	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	CDEF H MN
	R830	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	CDEF H MN
	R831	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	CDEF H MN
	R8R1	QRD161J-561Y	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26	CDEF H MN
	R8R2	QRD161J-561Y	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26	CDEF H MN
	R901	QRD161J-750Y	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R902	QRD161J-750Y	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R903	QRD161J-392Y	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26	A I KL
	R903	QRD161J-472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26	BCDEFGH J MN
	R904	QRD161J-473Y	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R905	QRD161J-561Y	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R906	QRD161J-561Y	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R911	QRD161J-750Y	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26	B DEFGH J
	R912	QRD161J-750Y	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26	B DEFGH J
	R913	QRD161J-561Y	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26	B DEFGH J
	R914	QRD161J-561Y	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26	B DEFGH J
	R943	QRD161J-152Y	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R962	QRD161J-101Y	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	B G J
	R963	QRD161J-101Y	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26	B G J
	R964	QRD161J-821Y	RESISTOR,FIXED CARBON FILM	820 OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R965	QRD161J-102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26	ABCDEFGHI JKLMN
	R9C1	QRD161J-123Y	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA26	B DEFG J
	R9C2	QRD161J-103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26	B DEFG J
	R9M3	QRD161J-473Y	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA26	A I KL
	R9M4	QRD161J-392Y	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26	A I KL
	FL301	LG-633-032K	COIL,IFT	BIAC OSC,1CHIP 5V(KS-75M) KWAN	ABCDEFGHI JKLMN
	L101	LG-636-004C	COIL	BEAD CORE BFS3550R2FD8,R T/P	ABCDEFGHI JKLMN
⚠	L102	LG-616-145H	FILTER(CIRC)	SHT LFS2020V4-04350	ABCDEFGHI JKLMN
	L103	LG-633-088G	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP	ABCDEFGHI JKLMN
	L104	LG-633-088G	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP	ABCDEFGHI JKLMN
	L106	LG-636-004C	COIL	BEAD CORE BFS3550R2FD8,R T/P	ABCDEFGHI JKLMN
	L201	LG-0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	FG
	L301	LG-0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5	ABCDEFGHI JKLMN
	L302	LG-0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	ABCDEFGHI JKLMN
	L303	LG-0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5	ABCDEFGHI JKLMN
	L304	LG-0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5	ABCDEFGHI JKLMN
	L305	LG-0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	ABCDEFGHI JKLMN
	L307	LG-0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5	ABCDEFGHI JKLMN
	L501	LG-0LA0122K018	INDUCTOR AXIAL LEAD	12M K 2.3X3.4 L5 TP	ABCDEFGHI JKLMN
	L503	LG-0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	ABCDEFGHI JKLMN
	L504	LG-0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5	ABCDEFGHI JKLMN
	L505	LG-0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	ABCDEFGHI JKLMN
	L506	LG-635-027C	INDUCTOR,RADIAL LEAD	EL0405RA SKI150G-3 K-TDK 15UH	ABCDEFGHI JKLMN
	L5G2	LG-0LR3300K035	INDUCTOR RADIAL LEAD	330M K 6X6 L5 TP	ABCDEFGHI JKLMN
	L5S1	LG-0LA0332K018	INDUCTOR AXIAL LEAD	33M K 2.3X3.4 L5 TP	ABCDEFGHI JKLMN
	L702	LG-0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	ABCDEFGHI JKLMN
	L703	LG-0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	ABCDEFGHI JKLMN
	L704	LG-0LA0821K018	INDUCTOR AXIAL LEAD	8.2M K 2.3X3.4 L5 TP	ABCDEFGHI JKLMN
	L705	LG-0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	ABCDE HI JKLMN
	L751	LG-0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5	CDEF H MN
	L753	LG-0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5	CDEF H MN
	L7V1	LG-0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	B DE J
	L801	LG-0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5	CDEF H MN
	L802	LG-0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5	CDEF H MN
	L8R1	LG-0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	CDEF H MN
	L8R2	LG-0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	CDEF H MN
	L901	LG-0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	ABCDEFGHI JKLMN
	L902	LG-0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	ABCDEFGHI JKLMN
	L904	LG-0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	ABCDEFGHI JKLMN
	L905	LG-636-004C	COIL	BEAD CORE BFS3550R2FD8,R T/P	ABCDEFGHI JKLMN
	L906	LG-0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	ABCDEFGHI JKLMN
	L907	LG-636-004C	COIL	BEAD CORE BFS3550R2FD8,R T/P	ABCDEFGHI JKLMN
	L911	LG-0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	B DEFGH J
	L912	LG-0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	B DEFGH J
	L914	LG-0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	B DEFGH J
	L915	LG-0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	B DEFGH J
	CS501	LG-6600M000002	SWITCH,PUSH	MPU11810MLB0 MIC DC 5V 1MA D-3	ABCDEFGHI JKLMN
	ES501	LG-4931R-0050C	HOLDER ASSEMBLY	END (DI)	ABCDEFGHI JKLMN
	ES502	LG-4931R-0050C	HOLDER ASSEMBLY	END (DI)	ABCDEFGHI JKLMN
⚠	F101	LG-585-011T	FUSE,SLOW BLOW	1600MA 250 V 5.2X20 CY/GL SEMK	ABCDEFGHI JKLMN
⚠	FH01	LG-586-008B	HOLDER	FUSE CLIP TP SINSUNG	ABCDEFGHI JKLMN
⚠	FH02	LG-586-008B	HOLDER	FUSE CLIP TP SINSUNG	ABCDEFGHI JKLMN
	JK801	LG-6612R-C002C	JACK,RCA	RCA-208C-06 YUQIU WH-RD	CDEF H MN
	JK901	LG-6620RM0002J	JACK,SCART	DSAM-0121 DOOWON 2F-21P(BL-BK)	B DEFG J
	JK901	LG-6620RM0002K	JACK,SCART	DSAM-0120 DOOWON 1F-21P (BK)	A C I KLMN
	JK901	LG-6620RM0002L	JACK,SCART	DSAM-0139 DOOWON 2F-21P(BK-BK)	H
	LD501	LG-4931R-0017C	HOLDER ASSY	LED(DI-CKD)LOCAL	ABCDEFGHI JKLMN
	LED502	LG-6301R2U001F	LED ASSEMBLY	TOH-30M-G3R1 OASIS UNIVERSAL 4	ABCDEFGHI JKLMN
	MS501	LG-6600JB8005B	SWITCH,MODE	NON 5V 1MA VERTICAL -G	ABCDEFGHI JKLMN
	P3D01	LG-561-234S	CONNECTOR(CIRC),DRAWING	GF120-9S-TS-A LG CABLE 9P 1.25	CDEF H MN
	P3D01	LG-561-234Z	CONNECTOR (CIRC)	GF120-3S-TS-A LGC 3PIN 1.25MM	AB G I JKL
	P3D02	LG-6630R5S010A	CONNECTOR (CIRC)	GF105-06S-TS LG CABLE 6PIN 2MM	ABCDEFGHI JKLMN
	P3D03	LG-561-251B	CONNECTOR(CIRC),DRAWING	GB201-2P-TS-B(LGC)	ABCDEFGHI JKLMN
	PMC01	LG-6630R-BE01L	CONNECTOR (CIRC),BOARD TO BOAR	JE612-12 JAE EUN 12P 2.0MM	ABCDEFGHI JKLMN
⚠	PW101	LG-561-292B	CONNECTOR	GP390 LGC 3P 3.96 STRAIGHT SN	ABCDEFGHI JKLMN
	RC501	LG-6712R1940GA	REMOTE CONTROLLER RECEIVER	TSOP2840WE1 VISHAY(TEMIC) 40KH	ABCDEFGHI JKLMN
	RS501	LG-6500RAB003A	SENSOR	SG-260 KODENSHI D33 REEL SENSO	ABCDEFGHI JKLMN
	RS502	LG-6500RAB003A	SENSOR	SG-260 KODENSHI D33 REEL SENSO	ABCDEFGHI JKLMN
	SW5T1	LG-556-213C	SWITCH,DETECTOR	THVV951BAA POSTECH DC 12 V 5-0	ABCDEFGHI JKLMN
	SW5T10	LG-556-213C	SWITCH,DETECTOR	THVV951BAA POSTECH DC 12 V 5-0	ABCDEFGHI JKLMN
	SW5T11	LG-556-213C	SWITCH,DETECTOR	THVV951BAA POSTECH DC 12 V 5-0	ABCDEFGHI JKLMN
	SW5T12	LG-556-213C	SWITCH,DETECTOR	THVV951BAA POSTECH DC 12 V 5-0	ABCDEFGHI JKLMN
	SW5T13	LG-556-213C	SWITCH,DETECTOR	THVV951BAA POSTECH DC 12 V 5-0	ABCDEFGHI JKLMN
	SW5T3	LG-556-213C	SWITCH,DETECTOR	THVV951BAA POSTECH DC 12 V 5-0	ABCDEFGHI JKLMN
	SW5T4	LG-556-213C	SWITCH,DETECTOR	THVV951BAA POSTECH DC 12 V 5-0	ABCDEFGHI JKLMN
	SW5T5	LG-556-213C	SWITCH,DETECTOR	THVV951BAA POSTECH DC 12 V 5-0	ABCDEFGHI JKLMN
	SW5T6	LG-556-213C	SWITCH,DETECTOR	THVV951BAA POSTECH DC 12 V 5-0	ABCDEFGHI JKLMN
⚠	T101	LG-642-015G	TRANSFORMER,SMPS	SJE-015G/SHT-015G SJ/SH/CS/LSE	ABCDEFGHI JKLMN
	TU701	LG-6700PFPL03A	TUNER	SECAM TADC-S301D LG PAL FS Y2K	FG
	TU701	LG-6700PFPL03B	TUNER	B/G TADC-G301D LG PAL FS Y2K2	AB J
	TU701	LG-6700PFPL03E	TUNER	G/K/I TADC-M301D LG PAL FS Y2	CDE HI KLMN
	X301	LG-6202R2443AC	RESONATOR,CRYSTAL	HC49U BUBANG 4-433709MHZ 15	ABCDEFGHI JKLMN
	X501	LG-6212AA2100C	RESONATOR,CRYSTAL	HC-49S BUBANG 10MHZ +/- 30 PPM	ABCDEFGHI JKLMN
	X502	LG-6202R-DA01A	RESONATOR,CRYSTAL	CFS-308 CITIZEN 32-768KHZ	ABCDEFGHI JKLMN
	X751	LG-529-021Q	RESONATOR,CRYSTAL	49U BUBANG 18432000HZ 30PPM 16	CDEF H MN